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Wheeler 90-91

1867

# Barteldes

## SEEDS

1918



FOR FIFTY YEARS  
HIS  
"GUIDE"  
TO  
PROSPERITY.

Wassersher

# THE MEN WHO DIRECT THE AFFAIRS OF THE BARTELDES SEED CO.



F. W. BARTELDES  
*President and General Manager*



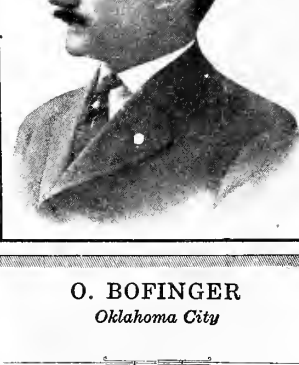
MAX WILHELMI  
*Vice-President*



O. BOFINGER  
*Oklahoma City*



J. M. WIESEL  
*Denver*



J. R. KERN  
*Denver*

ESTABLISHED  
1867

OFFICES AT

LAWRENCE, KANS.

DENVER, COLO.

OKLAHOMA CITY, OKLA.



# THE BARTELDES SEED CO.

DENVER, COLO.

HEADQUARTERS FOR



1867

TO

1918

United States Food Administration  
License No. G-23217

Never in the history of the world has the question of growing crops, both grain and garden, been of such vital importance as it is today.

There is today a world-wide shortage of all grains and foodstuffs. Our soldiers need food, our allies need food, and the U. S. Food Administration tells us that just now food is just as important as ammunition in the winning of this great war.

It is therefore up to each and every one of us to see to it that every available plot of ground is made to produce to the utmost. Every little back-yard garden helps, as every bit of food it produces saves just that much for our soldiers and our allies.

With the world crying for food and with all crops bringing record breaking prices you want to raise record breaking crops, and you can't do this by planting cheap seeds of poor or unknown quality.

Prices of a good many seeds are higher than last year but don't let that induce you to buy cheap seeds. The difference in cost between good seeds and cheap seeds is so very little that to jeopardize your crops and run the risk of losing your labor and the use of your land just to save a few cents is, this year above all years, the worst kind of folly.

The farmers and gardeners all through the Middle West have been planting Barteldes Seeds for a half-century and our seeds must be giving satisfaction, otherwise our business could not have grown as it has during these fifty years.

**YOU TAKE NO RISK IN BUYING FROM US.** All orders are taken and shipments made subject to your being satisfied with the seeds on arrival. When the seeds arrive you can examine them, test them, and if for any reason you are not satisfied, and will notify us within five days of receipt of same, we stand ready to take the seeds off of your hands and refund your money. It is well known, however, that seeds of the best quality often fail through various causes beyond human control, and we therefore, give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

**PRICES.** All prices quoted in this catalog are subject to market changes but as a rule the prices of garden seeds hold good during the season.

**PINK LIST.** Prices of field seeds change constantly and we therefore issue our "Pink List," giving current prices of field seeds. We issue this frequently and are always glad to send it when asked to do so. A postal card will bring it to you.

In ordering from the Pink List be sure to note the date at the top which shows when the list was printed. If the list you have is an old one send for a new one to get the correct prices. A postal card will bring it to you.

In case the price is different from what you figure on in your order we will, unless you give us instructions, use our best judgment as to whether to send you more or less seeds, or perhaps write you in case the difference is considerable. You will in all cases get the full value of your money.

**SHALL WE SUBSTITUTE?** Stocks of some varieties of garden seeds are very, very small and we know we shall be sold out long before the season is over. Please state on your order whether or not we may send you some other good variety in place of some variety which we may be out of when we receive your order.

**SEEDS BY MAIL.** We will send postpaid all Garden and Flower Seeds at the prices given in the following list, with the exception of heavy seeds, as Beans, Peas, Corn, Clover, Grain, Grass Seeds and Onion Sets. If you order these by mail, be sure to add postage.

**SEEDS NOW GO BY PARCEL POST.** Take advantage of this low rate of postage. The rates for the lower zones or up to a distance of 300 miles are very low and you can have your seeds delivered right to your door for less money than it would cost you to drive to town.

For Parcel Post information, see page 160 of this catalog.

**HOW TO ORDER.** Fill out the order sheet enclosed herewith, writing your name and address very plainly.

**SEND CASH ALONG WITH ORDER.**

Remittances may be made by Money Order, Draft, Stamps or Currency. We accept any amount of 3-cent stamps the same as cash. Be sure you register your letters if they contain cash. Money orders are the most economical and practical means of remitting.

**ORDER EARLY.** We will appreciate it if our customers will favor us with their kind orders as early as possible.

Send in your orders. You will be pleased with our service and well satisfied with our seeds.

**BRANCHES.** We have houses in Lawrence, Kans., and Oklahoma City, Okla., and if for reason of lower freight rates or prompter service a customer prefers to order from either of these places we assure him equally fair treatment.

## THE BARTELDES GARDEN GUIDE

We have just printed a new book which will be of great value to every one making a garden. This book tells about hot-beds, cold-frames, how to prepare the soil, how to fight insects, how to get early crops, how to store vegetables for winter use, and many other things of interest. It is free. Ask for it when you send in your order.

## PREMIUMS

Under the new Colorado Law, which prohibits the giving of premiums, we have been compelled to omit our usual free premiums—however, we have made our prices so low that you will get more seeds for your money when you send in a quantity order.

### Note Also Our Quantity Discount on Packets Below

On our 5c packets we make special prices for quantities as follows:

|                             |          |
|-----------------------------|----------|
| 10 Packets or more at.....  | 4c each  |
| 25 Packets or more at.....  | 3¾c each |
| 50 Packets or more at.....  | 3½c each |
| 100 Packets or more at..... | 3¼c each |

## ADJUSTO PLANT SUPPORT

Here is the simplest, strongest and most efficient plant support we have ever seen.

The stake is of hardwood painted green and if repainted every season it will last for years. The heavy spring wire is also painted green and will not rust.

It is instantly adjusted to any height and can be adjusted as the plant grows without disturbing the plant. It is indispensable for Tomatoes, Roses, Paeonies, Dahlias, Hydrangeas, Carnations, and any other plants needing support.

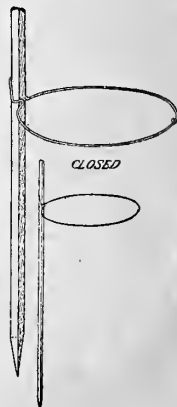
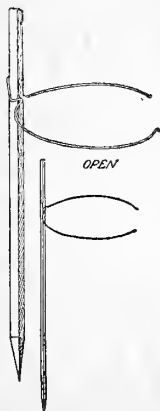
We guarantee this support to please you. Order a dozen or two with your seeds and if you are not satisfied you can return them and we will refund your money.

Three Foot.....15c each, \$1.75 per dozen.  
Four Foot.....18c each, 2.00 per dozen.  
Five Foot.....20c each, 2.25 per dozen.

Small Sizes for Flowers and Potted Plants.

18-inch.....8c each, \$0.85 per dozen.  
24-inch.....10c each, 1.00 per dozen.

Postage Extra—Larger sizes weigh one pound each and small sizes about ¼ pound each.





## SCHROCK KAFFIR-SORGHUM—Brought by the Sea Gulls

One spring about seven years ago multitudes of sea gulls circled for several days over parts of Oklahoma. Among these gulls were white ones, grey ones, and some orange gulls of the South Seas. Where these birds came from and what they were doing so far from their ocean home will always remain a mystery.

Later in the summer a rural mail carrier noticed in a field along his route a single plant of a type entirely unknown in that part of the state. The earliness, extreme vigor and the large size of the three heads of grain on this one plant made him sit up and take notice.

He staked this plant off and watched it develop. He saved the seed and in co-operation with the U. S. Department of Agriculture and the Experiment Stations of Oklahoma, Texas and Kansas, has developed this new variety into the surest grain crop of all the so-called drought-resisting grains.

The sea gulls and this new plant appeared in Oklahoma during the same spring, but whether the gulls brought the seed of this new plant or whether they did not is a matter of theory and of little consequence.

The important fact is that in Schrock-Kaffir-Sorghum we have a variety that has made heavy yields of grain year after year when other Kaffirs and other Sorghums were ruined by dry weather.

The name "Kaffir-Sorghum" was suggested by Agronomist Vinal of the U. S. Department of Agriculture. Kaffir, because of its kaffir-like heads; and Sorghum, because of its soft, juicy, sweet stalk.

Schrock Kaffir-Sorghum grows very uniformly to a height of from 3½ to 6 feet, and as you will note from the picture, stools and branches out abundantly, and each stalk bears a head of seed. As many as ten heads of grain on a stalk is no exception.

The stalks are slender and very sweet. Cattle and horses will eat it down to the roots, and some growers report that stock prefer it to the sweetest hay and will even leave alfalfa for it.

It makes excellent ensilage and when sown broadcast at the rate of about 50 pounds to the acre it makes fine leafy hay which can be handled with a wheat binder or cut with a mower.

The great advantages of Schrock Kaffir-Sorghum are:

Its earliness to mature grain.  
Immense yields of both grain and fodder.  
Its ability to withstand the dreaded midge of South Texas.

Great drought-resisting qualities.  
Blackbirds bother it but little.  
Can be planted three to four weeks earlier than Kaffir.

Owing to the tightness of the hull blackbirds do not like it and will fly over a field of Schrock Kaffir-Sorghum to reach Kaffir, Milo or Feterita. You, who have had your fields stripped by the birds, will appreciate this.

It matures ahead of Feterita and way ahead of Kaffir and Milo, and is without doubt the surest cropper we have ever grown.

Just read what one grower in Oklahoma writes of his 1917 crop which made from 60 to 80 bushels to the acre:

"My crop this year was cut to the ground by hail when less than eight inches high; sprouted from the roots, survived sixty days of practically rainless weather, ending with fourteen days and nights of the hottest, scorching, furnace-like winds that ever blew over this short grass country. Corn shrivelled up and died; cane sown for feed dried up when a foot high; the grass itself was dry enough to burn; yet Kaffir-Sorghum stood green and cool looking and came through with such a crop as I am proud to show anyone."

By all means plant at least a few acres of this sure cropper. We have just so much seed and when this is gone we will be unable to get any more until next season, so send in your order early or you might be disappointed.

### PLANTING

The seed should be sown in rows about three feet apart, using from three to five pounds to the acre. For best results it should be planted early, three to four weeks earlier than Kaffir. It is unlike other sorghums in that cold soil does not effect germination.

Plant the seed about two inches deep and cultivate often but very shallow. Deep cultivation will cut many of the roots. When sown broadcast for fodder use about 50 pounds to the acre.

### HARVESTING

For Silage and Dry Fodder—Cut with corn binder just before frost.

For Grain only—Head with light corn knife or beet topper, after frost. Stack heads like hay, rick 6 to 8 feet wide. If stacked right they never take water. Turn cattle into stalk fields; they gnaw stalks into the ground.

For Hay—Cut with mower or wheat binder



THREE PLANTS OF SCHROCK KAFFIR-SORGHUM.

when heads are in the dough state, or beginning to harden.

**USES:** Dry grain has same feeding value as White Kaffir, and like White Kaffir, for best results, should be either ground or fed in the head. Finest for poultry feed. Makes best ensilage in the world because of soft, sweet stalk and immense amount of leaves and grain. Hay has same value as Sudan Grass. Horses, cattle and sheep eat every particle.

**Prices:** Postpaid, per lb. 30c; 5 lbs. for \$1.00. For prices in larger quantities please see our Pink List.



**FETERITA**

Courtesy Kansas State Agricultural  
College

## FETERITA

The season of 1915 was a very wet one and in this season Feterita did not show up very well and consequently lost in favor. The drought of 1916 however, demonstrated once more that Feterita is the most drought-resisting grain crop that we have.

The two best features about Feterita are its wonderful ability to resist drought and its earliness. It has proved without any question its ability to stand dry weather, as it has made good yields during very dry seasons, and in some cases without any rain whatever. Some growers report that Feterita is fully thirty-five to fifty days earlier than Kaffir, and this also is a big advantage.

Feterita branches out from the stem and one plant makes several heads. Chinch bugs do attack it, but seem to prefer other crops. Even when the stalks are eaten off they stool out again and still make a crop.

The grain of Feterita is similar to that of Milo, but is pure white and larger and softer. Feterita is planted in rows like Kaffir or Milo, using from three to five pounds of seed per acre, and the crop is cultivated like Milo or Kaffir. Feterita should not be planted too early or too deep.

Reports show that it is a very good crop for dry regions and is an excellent catch crop in other places. It makes good ensilage and can be hogged down with very satisfactory results. Plant some Feterita and you will get a crop of grain in spite of dry weather.

Price postpaid, per packet 5c; per pound 15c. For quantity prices please see Pink List.

## TEPARY BEANS

A Drought-Resisting Bean raised by the Indians in Arizona. Prof. Clothier of the University of Arizona says: "After three years of experimenting with the Tepary Bean I am prepared to say it is one of the most wonderful plants ever presented to the dry farming public."

Tepary Beans will make a fair crop in 75 days and a good crop if they have 90 days. If it is struck by a drought it will ripen the pods already set and when the drought breaks it will set and ripen a new crop.

Under ordinary dry farming conditions they yield from 450 to 700 lbs. per acre. The beans are white, cook well, have a delicious flavor.

They have been grown by Indians for thousands of years without irrigation with an annual rainfall of 9 inches.

Price 30c per pound. Not postpaid, 1 lb. 25c; 10 lbs. \$2.25.



**DANISH STONE HEAD**

## DANISH STONE HEAD OR ROUND HEAD

Produces fine round heads that are very solid and of an unusually dark purple color. This rich coloring extends to the center of the head and a cross-section shows but very little white.

The plants are of strong growth and the heads about eight inches in diameter and very uniform. This is the best keeper of any of the Red Cabbages. . . . . Pkt. 10c; oz. 75c; 1/4 lb. \$2.50.



## GIANT CREGO ASTER

This grand Aster is a highly developed American type of the German Comet, Hohenzollern and Mammoth Ostrich Plume Asters. The flowers are of magnificent size, the petals are twisted and curled giving the flowers the fluffy appearance of a Chrysanthemum. The flowers are borne on long stems and keep in fine condition when cut.

Giant Crego Aster, white, pink, lavender or mixed  
.....Pkt. 10c

## LADY LENOX COSMOS

This variety represents the highest development in Cosmos. The long-stemmed flowers are of immense size. The petals are broadly oval and overlap, forming a circular flower of perfect symmetry and fine lasting qualities. Unsurpassed both for garden decoration and cut flowers.

Lady Lenox, white or pink.....Pkt. 10c

## SUDAN GRASS

**IT LAUGHS AT DROUGHTS AND REJOICES WHEN IT RAINS**



SUDAN GRASS

Courtesy Kansas Agricultural College

### SUDAN GRASS MAKES HAY EVERY YEAR.

The drought of the past summer gave Sudan Grass a severe test and it came out with flying colors. It proved conclusively that Sudan Grass is by far the surest hay crop for the West and Middle West.

It does well when it gets plenty of moisture but it is when a drought strikes the country that it shows it's real worth. Growers everywhere are enthusiastic about it and especially about the crop of hay it made for them during the past summer when nearly everything else burned up.

Sudan Grass is an annual and like Millet must be planted each season. It grows very tall, reaching a height of seven and eight feet. The stems are very small, rarely thicker than a lead pencil, and the plants stools wonderfully, producing under favorable conditions as many as 100 stalks from a single seed.

Under favorable conditions it will make three cuttings and yield up to six tons of hay per acre.

Sudan hay is much relished by horses and cattle, and they will leave almost any kind of roughage for it, cleaning up heads, blades and stalks.

Sudan Grass is generally planted in rows about thirty-six inches apart using about four to six pounds per acre, and also broadcast, using from 10 to 20 pounds per acre. It is important that the seed should not be planted until the soil has become warm, as cold soil only delays germination and dwarfs the

early growth. It can be planted any time during the summer as a catch crop, so long as seventy to eighty days intervene before the date of the first expected frost.

**SEE PINK LIST FOR PRICES**

## CALABASH PIPE GOURD

A rapid growing climbing annual from South Africa. The very popular Calabash Pipes are made from the fruit. When grown to make pipes it is best to let the vines run on the ground like cucumbers. These pipes are very light and color nicely.....Pkt. 10c

## MAMMOTH CHINESE CABBAGE

This Cabbage measures 29 inches in diameter. This Cabbage does not form a head like our cabbage, but forms a loose head of very large juicy leaves. These leaves are eaten like greens and make excellent food when boiled with beef.

It requires, like all Chinese Cabbages, a rich, well drained soil with abundant moisture. It should be sown in June or July and transplanted to open ground in August, two by two feet apart..Pkt. 10c; oz. 30c

## NEW DAHLIAS FOR 1918

Eight Grand Dahlias Which We Have Chosen as the Best of Their Class

### NEW SUNBURST

Giant Cactus

Everybody who has flowered Walkuere has been pleased with its large handsome flowers, which are refined in form and general make-up. In color it is one of those peculiar yet pleasing combinations of colors difficult to describe; the ground color is a sulphur yellow, which as the flower matures, deepens to a luminous golden-yellow at the center, the entire flower being suffused with cinnabar-red, distinct and novel. Plants ready April 25th. Price each, 75c

### LA GRAND MANITOU

The best variegated decorative dahlia. The flower is white, striped, spotted and blotched with deep reddish violet; flowers are borne on long stiff stems. Truly a grand dahlia. . . . . Price each, 50c

### PERLE DE LYON

A large cactus dahlia. Flowers are pure white, borne on long stems. The petals are cleft at the tip. . . . . Price each, 50c

### PHENOMINE

Peony-Flowered

The flowers are a rich cream-pink and of fine form; borne on long stems, making it an excellent cutting variety. . . . . Price each, 50c

### NIBELUNGENHORT

Giant Cactus

This is another distinct introduction which is always greatly admired, with flowers from 7 to 8 inches across, composed of rather broad, more or less curled and twisted petals of a beautiful shade of old-rose with golden-apricot suffusion. Very free-flowering on long stems; a fine cut flower.

Roots, Price each, 75c

### ETENDARD DE LYON

Colossal Hybrid Cactus

This dahlia will produce flowers 5 and 6 inches across, of a rich carmine-rose or royal purple. It is one of the best flowering of these large dahlias and one everybody admires. . . . . Price each, 50c

### COUNTRY GIRL

New Cactus

Petals are golden yellow at base, suffused with salmon-rose. A fine dahlia, large and perfect in form. . . . . Price each, 50c

### MRS. FERDINAND JEFFRIES

One of the largest cactus dahlias grown. The long, curved and twisted petals give the flower a shaggy appearance. Deep velvety red color.

Price each, 50c

## FORDHOOK BUSH LIMA

This potato lima was bred from the old Kummerle or Dreer Bush Lima and is much superior to its parent. It has the very excellent habit of growing stiffly erect and therefore keeping its bean off of the ground. Contact with the ground discolors beans and is very detrimental to them.

The plants are about thirty inches high and bear an immense crop of fine large pods. The pods are borne in clusters of from five to eight and measure five to six inches long. The beans are delicious and mature eight to ten days earlier than other bush limas.

Pkt. 10c; ½ lb. 30c; lb. 55c, postpaid. Not postpaid, lb. 50c; 2 lbs. 80c.

## ANAHEIM PEPPER

Plants are very vigorous and produce fruits 6 to 8 inches long, tapering from 1½ to 2 inches in diameter at top to almost a point. When dried they are a brilliant scarlet and are still more pungent than the Black Mexican Chili Pepper.

Pkt. 5c; ½ oz. 35c; oz. 60c; ¼ lb. \$2.00

## SAKURAJIMA RADISH

This Japanese curiosity is the largest of the Oriental winter radishes. It is a white variety of a good quality and mild flavor, attaining a length of 2 feet, and a diameter of 1 foot or more.

Should be sown in July in drills 2 feet apart and thinned to 1 foot apart in the rows. If sown in the spring the winter radishes are apt to go to seed and form no root. In China and Japan they are most commonly eaten cut in chunks and pickled in brine; also sliced or shredded when fresh. . . . . Pkt. 10c; oz. 30c



FORDHOOK LIMA



ANAHEIM PEPPER





## SURE CROP WAX BEAN

Sure Crop Wax is a new variety produced by crossing Currie's Rust-Proof with Round Pod Kidney Wax. It is very early, the pod is long, being flat when young but becoming thick-flat later. The seed is black and the pod of a rich yellow color, perfectly stringless at all stages of growth and of fine flavor.

The Sure Crop Wax is very vigorous and healthy, very prolific and altogether an excellent variety.

Postpaid, pkt. 10c;  $\frac{1}{2}$  lb. 35c; 1 lb. 55c. Not postpaid,  $\frac{1}{2}$  lb. 30c; 1 lb. 50c; 2 lbs. 90c.

## PIONEER PEA

The Pioneer is a new variety of the large podded dwarf type. The pods are even larger than those of the Gradus and the vines are up to 24 inches tall. The Pioneer is strictly an early variety, being just a few days later than the Alaska and from eight to eleven days earlier than the Telephone.

The Pioneer is a fine new variety worthy of a place in every garden and especially in the market garden.

Postpaid, pkt. 10c;  $\frac{1}{2}$  lb. 35c; 1 lb. 55c. Not postpaid, 1 lb. 50c; 2 lbs. 90c.

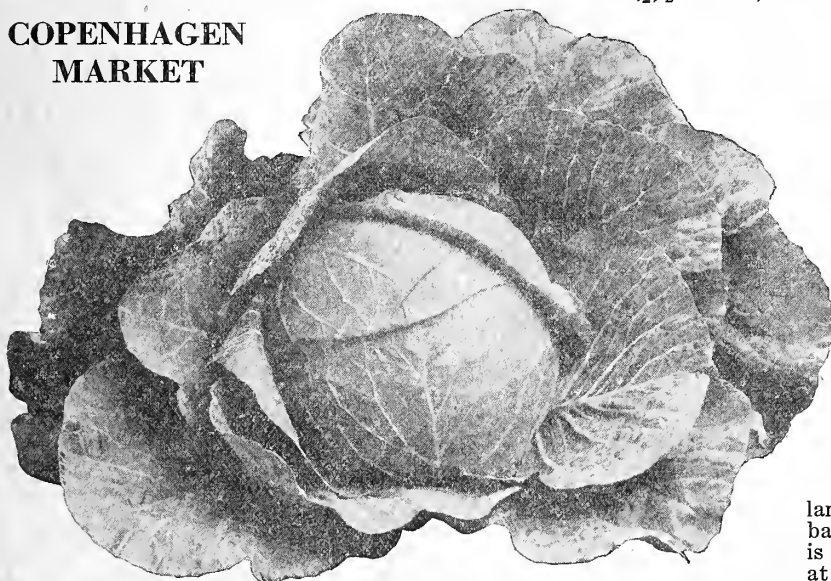
## THE NEW "JUNE PINK" TOMATO

Undoubtedly the best pink-fruited early Tomato in cultivation. It is fully as early as "Spark's Earliana," of high productiveness and the vines are absolutely blight proof. The splendid round, solid, meaty Tomatoes are the attraction of the markets.

The plants are very thrifty, making a very vigorous growth. The fruits are usually set in large clusters and run from  $2\frac{1}{2}$  to  $3\frac{1}{2}$  inches in diameter. They stand shipping exceedingly well and bring highest prices wherever offered. The Tomatoes are solid, free from core, have only few seed cavities and the meat is of fine flavor. "June Pink" is altogether the most desirable pink variety of first crop.

Pkt. 10c;  $\frac{1}{2}$  oz. 30c; oz. 50c

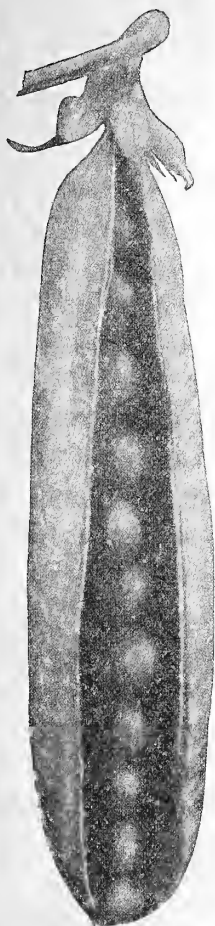
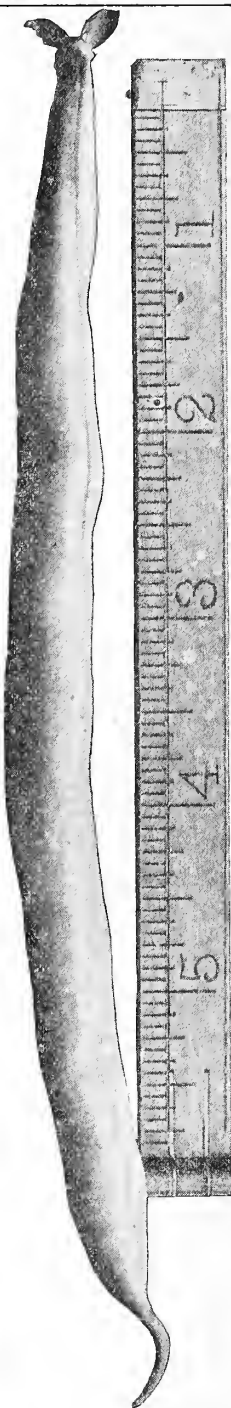
## COPENHAGEN MARKET



big advantage to the market gardener. The heads are large, averaging about 10 pounds, are very solid and of fine flavor. It matures as early as the Wakefield and yield is much heavier. The plant is short stemmed. Color is light green. Seed from originator in Denmark.

Pkt. 10c;  $\frac{1}{2}$  oz. 40c; 1 oz. 75c;  $\frac{1}{4}$  lb. \$2.50

SURE-CROP WAX BEAN



PIONEER PEA

## PINK KAFFIR

### SURE TO MATURE

Every grower of Kaffir Corn knows that nearly every year thousands upon thousands of bushels of Kaffir Corn are caught by early frosts, and every Kaffir Corn grower will appreciate the great value of a variety that will mature from two to three weeks earlier than the White Kaffir.

This difference of two weeks in maturing often means just the difference between a big heavy yield and a field ruined by an early frost.

Pink Kaffir will grow in wetter soil and will stand more dry weather than White Kaffir. Unlike White Kaffir the Pink does not stop growing in dry weather but keeps right on.

The stalk of the Pink Kaffir is slender but the plant has just as many leaves and makes just as much fodder as other Kaffirs. The heads are rather slender but long. Yields are fully as heavy as White or Red Kaffir.

One grower reports as follows: "In 1916 I planted White Kaffir ten days before I did the Pink. The White did not mature while the Pink made 43 bushels per acre. In 1917 I planted both White and Pink at the same time. The White did not mature while the Pink made a heavy yield."

Plant at least a few acres of Pink Kaffir. It will pay you. Per pound 15c; 5 lbs. 60c, postage extra.

For prices of larger quantities see Pink List.

## THE MEXICAN EVER-BLOOMING SINGLE TUBEROSE

They have tall, stiff stems, with single pure white flowers, delightfully fragrant. They should not be planted before danger of frosts is passed. They never blight and the smallest bulb blooms the first season, generally sending up from 5 to 15 flower stalks. If the stalk is cut when the first flower opens and put in water the flowers increase in size and whiteness and keep for a week or ten days. Planted in May will bloom in August.....Each 10c; 2 for 15c; doz. 65c

PINK KAFFIR

## TWO NEW VARIETIES OF COSMOS

The Cosmos has long been one of the most popular of easy growing annuals. These flowers are a great improvement over the old type and are very beautiful. The type, however, is not entirely fixed and some of the flowers may be large single ones.

Be the first in your neighborhood to show these new varieties.

Crested Cosmos, mixed.....15c per pkt.  
Double Cosmos, mixed.....15c per pkt.

## DIMORPHOTHECA AURANTIACA

### The African Golden Orange Daisy

This is an extremely showy annual of easy culture and is a beautiful flower. The hardy plant has a branching habit, growing 10 to 12 inches in height, and is an exceedingly profuse bloomer. The marguerite-like blossoms, about 2½ inches in diameter, are of a rich, glossy orange gold color.....Packet 10c



CRESTED—COSMOS—DOUBLE



## CHINESE WOOLFLOWER

This is one of the most attractive flowers of recent introduction. The plants grow about two feet high, bearing one large center flower and numerous others on side shoots. Each flower resembles a ball of beautiful scarlet wool.

Each plant with the many flowers and green foliage has the appearance of a well arranged bouquet. The flowers are borne from early summer until late fall and retain their beauty until cut down by frost.

If the flowers are cut when fresh and then carefully dried they will hold their color all winter.

Can be used effectively for masses or borders. Pkt. 15c.



CHINESE WOOLFLOWER

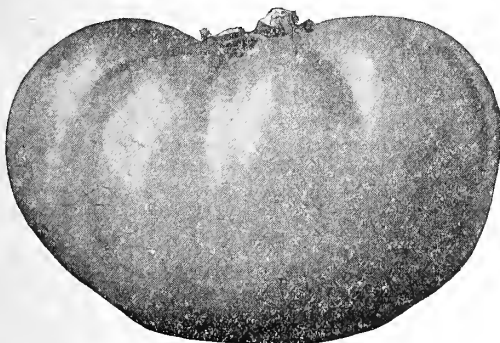
## BLACK BEAUTY EGG PLANT

The earliest large-fruited variety. The fruits set freely and develop quickly, so the entire crop can be harvested before frost. They are large, thick and of a rich lustrous purplish-black. The calyx is entirely free from thorns or spines.

Pkt. 10c; ½ oz. 35c; oz. 60c; ¼ lb. \$2.00.

## GOLDEN PONDEROSA

A Splendid Novelty



There are several varieties of Yellow Tomatoes on the market, but most of them are valuable only on account of the novelty of the yellow color.

The Golden Ponderosa has all the good qualities of the Red Ponderosa, and in addition has a striking yellow color, which makes it very attractive.

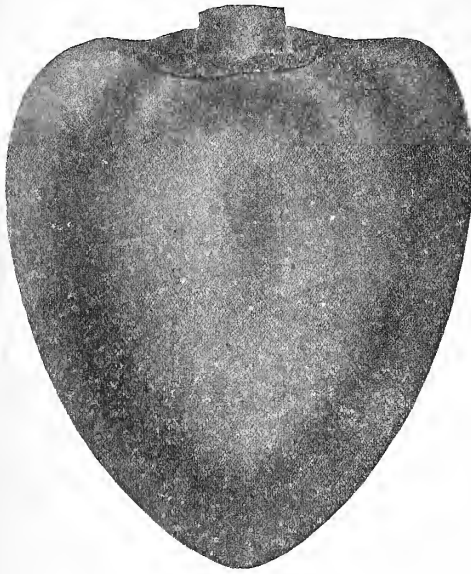
It is a heavy yielder and the tomatoes are of very large size and of a delicious flavor. Excellent for slicing and when the slices are served on a dish with slices of red tomatoes the effect is very pretty and attractive.

Pkt. 10c; ½ oz. 30; oz. 50c

## NEW BOHEMIAN HORSERADISH MALINER KREN

The Maliner Kren Horse Radish Roots were introduced by the U. S. Department of Agriculture. They are much earlier and produce better than the ordinary sort. The roots grow larger, are whiter, and quality is far superior. All who grow Horse Radish should try this variety.

Dozen 25c; 50 for 70c; 100 for \$1.15, postpaid.



## PEPPER PIMIENTO

This new pepper is very mild, with thick heavy flesh and has a delicate flavor. The shape is very good, being of medium length and smooth. It presents an attractive appearance when filled for the table. It is also delicious when used in salads or creamed like onions. Very prolific and a good shipper.

Pkt. 10c; ½ oz. 35c; oz. 60c; ¼ lb. \$2.00

## WINTER CASABA MUSK MELONS

Winter Melons are becoming more popular every year and the two varieties offered here are two of the best.

**SANTA CLAUS.** The name is well appropriated, as you cannot have anything more delicious for your Christmas dinner. The rind has the appearance of a mottled pomegranate. The shell is hard and about one-eighth inch thick. There is no seed cavity. The seeds are embedded in a jelly-like pulp. The light green flesh is absolutely stringless. Plant the seed early; pick when the green turns to bright yellow and put away until slightly soft.

Pkt. 10c; oz. 25c; ¼ lb. 85c; lb. \$3.00

**WINTER PINEAPPLE.** This is the green melon used extensively for shipping East for the holiday and winter trade. Melons do not mature on the vines and the flavor is greatly improved by being stored in a cool place. . . . . Pkt. 10c; oz. 20c; ¼ lb. 75c; lb. \$2.50

## BARTELDES LATE SNOWBALL OR DRY WEATHER

This splendid Cauliflower, introduced by us in 1907 to Western Planters has proven to be a perfect "success." Samples weighing 8 and 11 pounds have been brought to us with the statement that they average 7 pounds in large fields planted with this stock. We feel satisfied that it answers the purpose we have been seeking; that is, to furnish a Cauliflower well adapted to our Western country, for use in summer.

Is about 2 weeks later than Danish Snowball. It has a larger head, solid, white and very fine grained. The leaves are large and have a tendency to fold over the head to protect it from the scorching sun of our summer months. It also stands the drought better than any other Cauliflower grown.

Pkt. 15c; ¼ oz. \$1.00; oz. \$3.50

## CHALKS EARLY JEWEL TOMATO

Of most handsome appearance, finest flavor and early ripening qualities, this new bright red Tomato is destined to become a leader among the already numerous popular varieties. In time of ripening it is within a week or ten days later than "Spark's Earliana," the well known earliest of all bright red tomatoes. The extremely handsome fruits are of the finest table qualities, possessing remarkably sweet flavor. They are solidly meaty, having small seed cavities and are not apt to crack. The plants are of robust growth, strong, producing fruits throughout the season, and for this reason we recommend to plant "Chalk's Jewel" not only for an early crop producer, but as one which may be planted as a main crop as well.

For general garden planting, where customers wish to limit their choice to one variety, we can safely recommend "Chalk's Early Jewel" as the variety which will give the best satisfaction.

Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.30

## WHITE WONDER MILLET

The most striking feature of White Wonder Millet is the size of the heads. The heads of this variety will run from eight up to eighteen inches and a single head will have as many as 15,000 seeds. The head shown in the illustration measured just twelve inches when straightened out.

The yield of White Wonder Millet is very heavy and this variety will yield fully half again as much as German Millet and some growers state that it will outyield other millets three to one.

Another very desirable feature is its earliness. White Wonder Millet is much earlier than German Millet and is almost as early as Siberian Millet.

The foliage is very heavy and the leaves broad, resembling those of corn. It produces an immense amount of excellent fodder which cures very readily. Per pound, postpaid, 15c. For prices in larger quantities, see our Pink List.

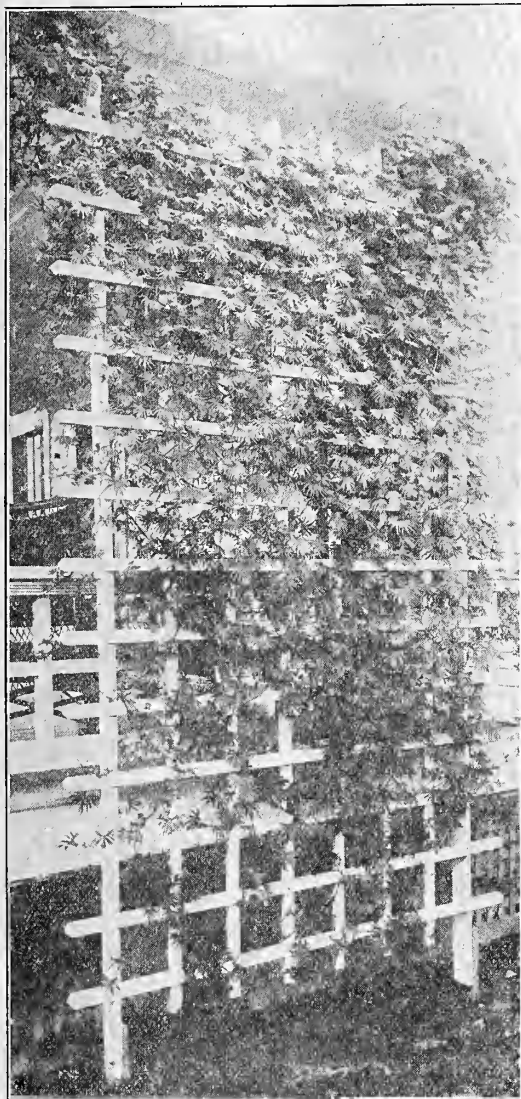




## RED SUNFLOWER

Horticulturists have been trying for years to get a Red Sunflower. They have not quite succeeded, but have come very near it. We offer a flower the petals of which are red and tipped with yellow. This is a decided novelty and will please you.....Pkt. 10c

## FOUR FINE CLIMBERS



CARDINAL CLIMBER

### CARDINAL CLIMBER

This is easily the best annual climber introduced in recent years. It is a very rapid grower and attains a height of twenty-five feet in a season. It has beautiful fern-like leaves and is literally covered from mid-summer to frost with brilliant, fiery red flowers about one and one-half inches in diameter and borne in clusters of five.

It needs a sunny situation and good rich soil. The seeds should be soaked in water a few hours before sowing and should not be planted outside until about the first of May. This plant is a very shy seeder and therefore the seeds are quite expensive.....Pkt. 10c; 3 pkts 25c

### FANCY JAPANESE MORNING GLORY—FRINGED

The perfection of Morning Glories. Immense flowers, often as big as a saucer. The colors, shadings and markings of the flowers are limitless. The foliage is luxuriant, distinct and varied, green, silvery and yellow. The robust vines attain a height of 30 to 40 feet in one season. Soak the seed in lukewarm water for a few hours before planting.

Mixed Colors, Pkt. 10c

### DOUBLE MORNING GLORY

The variety of colors is almost limitless, running from the darkest reds and purples through all shades of blue and pink to snow-white. Flowers are streaked, mottled, striped, marbled and bordered in wonderful fashion. They are double and semi-double and some are so much fringed as to have the appearance of a double flower.

Mixed Colors, Pkt. 10c

## KUDZU VINE

Jack-in-the-Bean-Stalk-Vine—*Pueraria Thunbergiana*. The most rapid growing plant we have ever seen. It dies to the ground each fall, but makes the remarkable growth of from 50 to 70 feet each summer. The leaves resemble those of the lima bean and the foliage is very dense. Will grow anywhere and can stand an immense amount of hot weather. It grows slowly at first but when once started it will surprise you. You can almost see it grow. Fine for covering porches, arbors or old trees.

Seed, per pkt. 5c; 1/4 oz. 30c. Root 25c each, 3 for 60c, postpaid

## ORCHID-FLOWERED PANSY

Here is a unique type of pansy among the giant-flowered class. The upper petals are upright and plaited resembling orchids. The colors are terra cotta, flesh, orange, rose pink and lilac. The color combinations are unique and different from others. All pansy growers should try a packet of these as we are sure they will be delighted with them.....Price per pkt. 15c

## BARTELDES' VEGETABLE SEEDS

**Have Given Satisfaction Since 1867. You Can Depend Upon Them.**

We will send postpaid all vegetable and flower seeds at the prices given in this catalog, except such heavy seeds as Peas, Beans, Corn, Field Seeds, Grass Seeds and Onion Sets. If these are wanted by mail it will be necessary to add to the remittance 5 cents a pound for small quantities and regular parcel post rates for larger quantities.

The parcels post will be found very convenient and very cheap.

### ARTICHOKE

#### Artichoke

There are two kinds of Artichokes. The Green Globe and the Jerusalem. The heads of the Green Globe are cooked like Asparagus and make a very delicious food. The roots of the Jerusalem are used for stock feed. This variety will be found listed under field seeds.

**CULTURE.** Sow in April in rich soil and transplant the following spring to permanent beds (in rows or hills) three feet apart and two feet between the plants. Green Artichoke gives only partial crop the first season, but the beds will be bearing for years. Protect in winter by a covering of leaves or coarse manure.

**LARGE GREEN GLOBE.** The standard variety. Produces large, globular heads, scales, green shading to purple ..... Pkt. 5c

**JERUSALEM ARTICHOKE.** Cultivated for its roots, which make an excellent crop for stock feeding. Tubers in season.

For full description and prices in quantities, see field seed section.

### ASPARAGUS

#### Spargel

**CULTURE.** The seed can be sown in any garden soil and should be sown in rows about 14 inches apart as early in the spring as possible. Cultivate thoroughly and thin plants to three inches in the row. The permanent bed should be of deep, rich, loamy soil, well stirred, and as these beds must bear for a good many years they should be well manured and fertilized. If the soil is of stiff clay it should be loosened up by using plenty of sand or even coal ashes. Have rows from two to four feet apart and set the plants a foot apart and at least six inches below the surface. Cut sparingly the second season but after that the beds will yield full crops. One ounce of seed will produce about 250 plants and it takes four or five pounds to the acre.

#### Asparago

For full directions how to grow Asparagus, get our Asparagus Book by Hexamer, price..... 50c

**COLUMBIAN MAMMOTH WHITE.** A magnificent variety. It furnishes fine, white shoots, which stay white as long as they are fit to use without any artificial means of blanching..... Pkt. 5c; oz. 10c; ¼-lb. 25c; lb. 70c

**CONOVER'S COLOSSAL.** The standard sort, of a large size and excellent quality... Pkt. 5c; oz. 10c; ¼-lb. 25c; lb. 70c

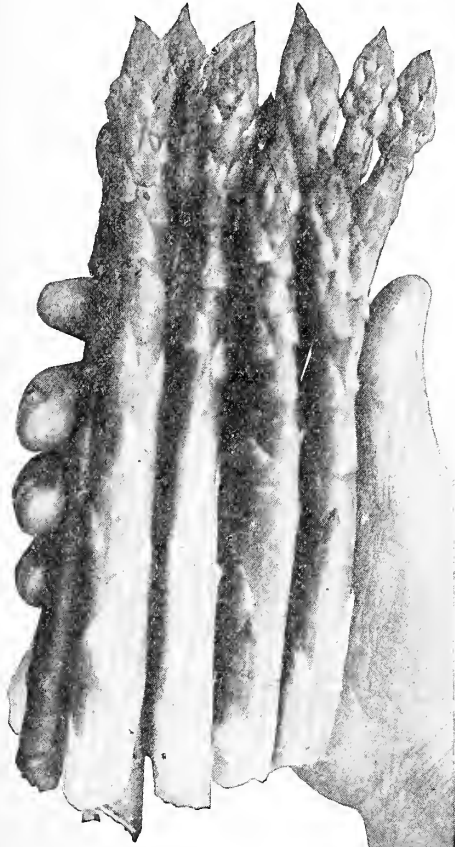
**EARLY ARGENTEUIL.** Just recently introduced. It is very early and of extremely vigorous habit, two qualities which make this variety less apt to be attacked by rust. The flavor of the stalk is very delicious. It is appreciated wherever there are people who relish Asparagus.

Pkt. 5c; oz. 15c; ¼-lb. 40c; lb. \$1.00

**PALMETTO.** Of bright green appearance, very large size and even, regular growth. Its immense productiveness combined with earliness and good qualities, make it a fine variety for general use.

Pkt. 5c; oz. 10c; ¼-lb. 25c; lb. 70c

**ROOTS OF THE ABOVE VARIETIES.** 25c per dozen; \$1.00 per 100. Price for larger quantities on application.



**PALMETTO**

#### BOUGHT BARTELDES SEEDS FIFTY YEARS AGO

Barteldes Seed Co.,  
Lawrence, Kans.

Gentlemen: Please send me your 1915 Catalog.

Now listen. I am a very old customer of yours, having bought seeds of you in the spring of 1867 and 1868. I lived on the Wakarusa southeast of Lawrence during the war. I left there in the spring of 1868. I planted my first garden in this country with Barteldes' seeds, and I am coming back again.

Respectfully,

J. G. PENIX.



## BEANS

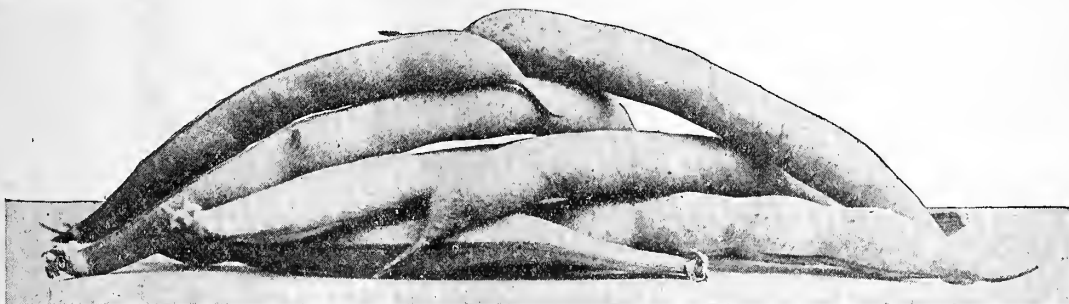
**NOTICE.** We are selling everything by the pound. A pound of beans is equal to a little more than a pint.

In ordering beans, peas and sweet corn, grass and other field seeds by mail please add postage at regular parcel post rates.

The Bean is one of the most satisfactory vegetables for the home garden. A small patch will supply a good many messes for the table, an almost constant supply can be had by making successive plantings of about ten days apart during the spring, and a fall crop can be had by planting about eight weeks before the first expected frost. They can be served in several different ways and are very easily canned for winter use.

**CULTURE.** Bush Beans can be planted either in hills or drills but the latter method is the more common. The beans should be planted from one and a half to two inches deep and about four inches apart. The soil should be thoroughly pulverized so the beans will have no difficulty in pushing through. The rows can be from eighteen inches to three feet apart.

Beans are often planted as a catch crop between squashes, cucumbers, etc. They protect the tender vines and are out of the way before the entire area is needed for the companion crop. Beans are also planted between the lettuce plants just before the latter reach marketable size, so that by the time the lettuce is removed the area will be occupied by the young beans: One pound to 60 feet of drill; 1 to 1½ bushels to the acre.



### Stringless Green Pod

This is today the most popular bean of its class and is the staple variety for general purposes. The pods are long, round, thick, free from strings and very meaty. They are of dark green color, very attractive and of excellent flavor.

The plants are very vigorous and the pods are produced early and in large quantities.....Pkt. 5c; ½-lb. 20c; 1-lb. 35c

**EXTRA EARLY RED VALENTINE.** An old favorite and has only recently been surpassed by the Stringless Green Pod. Very prolific and the pods are fine and round, and very tender while young. It is as early as the preceding one, but the pods are not quite as long nor as straight.....Pkt. 5c; ½-lb. 20c; 1-lb. 35c

**EARLY YELLOW SIX WEEKS.** The pods are long, flat and of a bright green color. Plants form erect bushes.....Pkt. 5c; ½-lb. 20c; 1-lb. 35c

**EXTRA EARLY REFUGEE OR BROWN SPECKLED VALENTINE.** This may be called one of the second early sorts. Pods are round, of good flavor, but because of the great vigor of the bush it needs twice the usual room.Pkt. 5c; ½-lb. 20c; 1-lb. 35c

**GIANT STRINGLESS GREEN POD VALENTINE.** The round, meaty pods resemble the Early Red Valentine, but this bean matures a week or ten days later. The pods are quite stringless and brittle at all stages and this variety is to be recommended highly.....Pkt. 5c; ½-lb. 20c; 1-lb. 35c

**DWARF HORTICULTURAL.** An excellent soup bean in summer, a fine baking bean in winter.....Pkt. 5c; ½-lb. 20c; 1-lb. 35c

**LARGE WHITE MARROWFAT.** The standard of white soup beans.  
Pkt. 5c; ½-lb. 20c; 1-lb. 35c

### BARTELDES' GARDEN GUIDE

A new book, giving much valuable information about gardening. It is free. Ask for a copy when you send in your order.



If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for **EXTRA EARLY RED VALENTINE** Special Prices

## BEANS—Continued

### POSTAGE EXTRA

Prices of beans do not include postage. Add regular parcel post rates.

### WAX PODS

#### SURE CROP WAX

See Under Novelties

**IMPROVED GOLDEN WAX (Rust Proof).** The standard wax bean for years. The pods are large, slightly flattened, brittle, quite stringless when young, and of golden wax color. It is very tender, of fine flavor, and is unexcelled as a shell bean for winter use. The bushes are of compact growth and very prolific.

Pkt. 5c; ½-lb. 25c; 1-lb. 40c

**DWARF GERMAN BLACK WAX.** Sometimes called Butter Beans. One of the earliest varieties, producing fine, round, meaty pods of good quality.

Pkt. 5c; ½-lb. 25c; 1-lb. 40c

**WARDWELL'S KIDNEY WAX.** Highly recommended for private planters and market gardeners. The pods are flat, straight, and are produced in large quantities.

Pkt. 5c; ½-lb. 30c; 1-lb. 50c

**PENCIL POD BLACK WAX.** Plant grows about 15 inches high, very productive, with straight pods 6 to 7 inches long, light golden yellow color, round, meaty and deeply saddle-backed; flesh brittle, solid and stringless; flavor fine.....Pkt. 5c; ½-lb. 30c; 1-lb. 50c

**CURRIE'S RUST PROOF BLACK WAX.** As near rust proof as a good bean can be. Very vigorous and hardy and productive.....Pkt. 5c; ½-lb. 25c; 1-lb. 40c

**DAVIS' WHITE WAX.** This bean does not discolor, and is therefore excellent for canning. It is immensely productive and a very good shipper. The pods are straight and 5 to 6 inches in length. The dry bean is white and very desirable for winter use. .Pkt. 5c; ½-lb. 25c; 1-lb. 40c

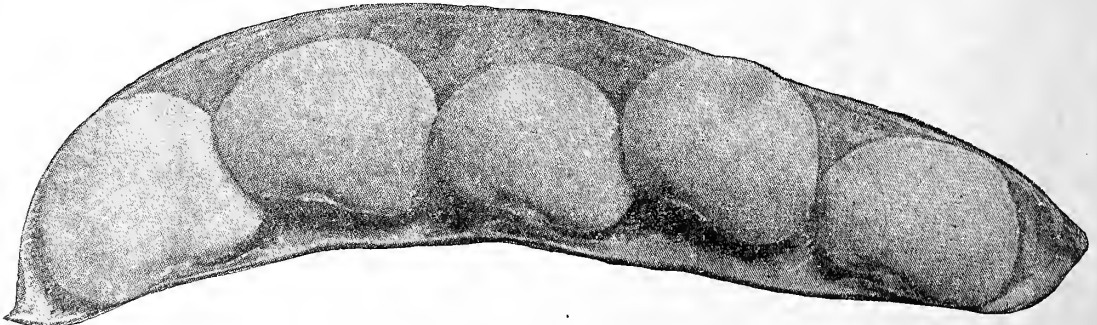
**FLAGEOLET WAX.** An early wax variety; long pods.  
Pkt. 5c; ½-lb. 25c; lb. 40c



IMPROVED GOLDEN WAX

## BUSH LIMA BEANS

**FORDHOOK BUSH LIMA.** (See under Novelties.)



BURPEE'S BUSH LIMA

**BURPEE'S BUSH LIMA.** This is the bush form of the Large White Lima. The bush is about 20 inches high and up to two and a half feet in diameter, bearing from 50 to 100 large pods.  
Pkt. 5c; ½-lb. 25c; 1 lb. 40c

**HENDERSON'S BUSH LIMA.** This bean is about two weeks earlier than the pole Limas. It needs no stakes and produces an enormous crop of delicious Lima beans.  
Pkt. 5c; ½-lb. 25c; 1 lb. 40c



## BEANS—Continued

### POLE OR RUNNING VARIETIES

**Stangenbohnen**

**Porotos de enrame**

Postage, extra. Add regular parcel post charges.

**BURGER'S GREEN STRINGLESS.** This bean has surpassed the old Kentucky Wonder, it being earlier and bearing for a longer time. The pods are stringless and up to eight inches long, dark green, very tender, and have a delicious flavor. The dry beans are white.

Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c

**KENTUCKY WONDER OR OLD HOMESTEAD.** This has been for a long time the most popular bean. It is very vigorous, climbs well, and bears abundance of nearly round pods which are often ten inches long.

Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c

**WHITE CREASEBACK.** Extremely early and matures all its pods at the same time. Vines are medium sized but wonderfully productive in good soil. The pods are quite round, quite fleshy, medium sized, silvery green, and are borne in clusters of four to twelve. Are excellent snap beans, fine shippers and are especially fine for baking.

Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c

**LAZY WIFE.** So named because of the easy picking, and a very popular bean in some localities. Pods are broad, thick, very fleshy, entirely stringless and of a rich buttery flavor when cooked. The beans are white and make a good dry bean for winter use.

Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c

**CUT SHORT OR CORN HILL.** The old standard for planting among corn. Pods are short, round and tender.

Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c

**WHITE DUTCH CASEKNIFE.** Pods are large, flat and green; can be either snapped or shelled.

Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c

**HORTICULTURAL, OR SPECKLED CRANBERRY.** A showy bean and matures in eighty days. Pods green, dashed with red, valued as a snap or for shelling.

Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c

**EARLY GOLDEN CLUSTER WAX.** The only wax bean among the pole varieties. It bears from July until frost and the pods are six to eight inches long and come in clusters from three to six. The flavor is most excellent.

Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c



KENTUCKY WONDER

### FLOWERING BEANS

**SCARLET RUNNER.** Has a fine scarlet flower and is very desirable for covering trellises, old fences, etc. The green pods are edible. . . . . Pkt. 5c;  $\frac{1}{2}$  lb. 30c; 1 lb. 50c

### POLE LIMA BEANS

**LARGE WHITE LIMA OR BUTTER BEANS.** The old favorite and of fine flavor.

Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c

**KING OF THE GARDEN LIMA.** This is a decided improvement over the large White, being a strong grower, very productive and bearing large, well filled pods. The beans are usually shelled, of fine quality and excellent flavor. . . . . Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c

**SMALL CAROLINA, OR SIEVA LIMA.** This is a small type of the pole limas. It matures quickly, produces immense crops, and makes an excellent bean for winter use.

Pkt. 5c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c

**THE BARTELDES GARDEN GUIDE** tells how to store vegetables for winter use. The book is free. Send for a copy when you order.

**If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices**

## TABLE BEETS

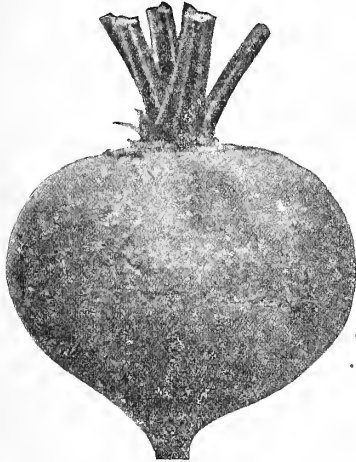
### Rote Rüben

Beets can be very easily grown in the home garden. Beets are used for pickles, boiled, sliced, and fried in butter, adding a little vinegar just before removing from the fire. The young plants are used for greens.

**CULTURE.** Beets do best in rich, sandy loam, but may be grown in any good soil. The seed should be sown in the spring as soon as danger of frost is passed, in rows from 12 to 30 inches apart. As soon as the plants are well up they should be thinned to 4 or 5 inches in the row. The seed should be covered to the depth of about an inch. It takes about two ounces of seed for 100 feet of row and about 6 to 8 pounds to the acre.

For a succession of young beets during the summer plant every four weeks during spring months. Beets for winter storage should be sown in late summer.

### Remolachas



EARLY MODEL

### Early Model

The earliest of any beet in existence. It is of perfect globe shape with small tap roots. The color of the flesh is very dark red, which makes it splendid for pickling purposes. In flavor it cannot be beat. It is tender, sweet and juicy, retaining its crispness throughout the season. The foliage is of a very dark color, is very small, permitting close planting of beets. This is one of the best acquisitions of recent years. . . . . Pkt. 5c; oz. 20c; ¼-lb. 65c; lb. \$2.10

### Barteldes' Early Blood Turnip

This is a carefully selected strain of this Blood Turnip Beet. It is very early, deep blood red and almost round. It is smooth and an excellent forcing variety. Good for main, spring or summer crop, and is a fine keeper. It cooks sweet and crisp and is an excellent beet in every respect. . . . . Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**EARLY BLOOD RED TURNIP.** This is a turnip beet, and is the old standard among the early varieties. It is of dark red color and is perhaps the most popular of all beets.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**EXTRA EARLY EGYPTIAN.** An extra early turnip-shaped variety; has small tops and grows quickly. The flesh is in alternate rings of white and red. . . . . Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**DETROIT DARK RED.** A choice strain of dark red turnip beet of globular to oval shape with smooth roots and small tops. Skin is blood red, zoned with light shades, tender and sweet. Fine for market and canning. . . . . Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.25

**THE LENTZ.** As early as the Egyptian, flesh very tender and sweet at all times. Very productive, a good keeper and will produce crop in six weeks from time of planting.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**ECLIPSE.** This is as early as the Egyptian, but is more desirable owing to its globe shape, smoothness and regularity. It has a small firm top, is very sweet, fine and of dark red color.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**HALF LONG RED.** Larger than the turnip beets and makes a heavier yield.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

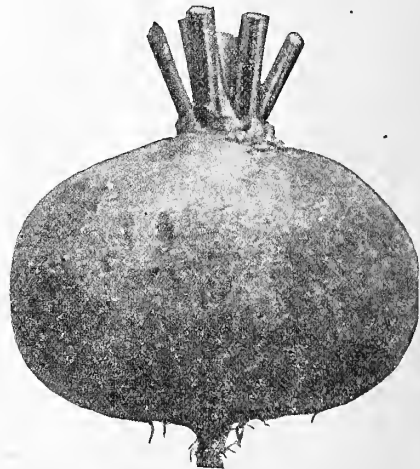
**LONG BLOOD RED.** The old standard variety for table and cattle. It is the best drouth resister of all; color deep red, flesh very sweet. Grows entirely under the ground.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**SWISS CHARD, OR FOLIAGE BEET.** This is a distinct vegetable from the common beet, much superior for greens, and is ready for use much earlier. When mature, the plants form broad, flat and beautifully white and wax-like stems, which are very delicious when cooked as beets and asparagus tips, or pickled. We recommend this beet. . . . . Pkt. 5c; oz. 20c; ¼-lb. 75c; lb. \$2.50

If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices

**EDMOND'S BLOOD TURNIP**— Handsome round shape, skin very deep, blood red color, flesh very dark and exceedingly sweet and tender. Very regular and of good size. Make excellent bunch beets. . . . . Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00



**CROSBY'S EARLY EGYPTIAN.** One of the earliest and best on the market. It is more globular than the Early Egyptian. Especially good for market gardeners. . . . . Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00





## SUGAR BEETS AND STOCK BEETS

### Runkel Rüben

**CULTURE.** The soil for these should be plowed more deeply and the drills should be farther apart than for garden beets. Sow in April or beginning of May in drills from 2 to 3 feet apart, and when 4 to 5 inches high thin to 12 or 15 inches in the row. As soon as frost comes dig up the roots, cut top off and then pile 5 to 6 feet deep on a raised and sloping situation and cover at frost with straw or hay and one inch of earth. As it gets colder, increase to 5 or 6 inches of earth; by so doing all danger of heating is obviated, and the roots keep until next summer. Four or five pounds are sown to the acre. Sugar beets are also used for stock feeding, and while not as large as the Mangels, they have a higher percentage of sugar and therefore are of higher feeding value.

### SUGAR BEETS

Practically all of the Sugar Beet seed comes from Europe and at the present writing the outlook is that this seed will be very scarce. We therefore advise early ordering of this seed.

**RED TOP SUGAR.** Fine, sweet flesh and the best for cattle feeding.

Oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.25

**LANE'S IMPERIAL SUGAR.** Will yield almost as much as the best Mangel.

Oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.25

**SILESIA SUGAR.** The old well-known standard variety and a good beet for feeding... Oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.25

**VILMORIN'S IMPROVED SUGAR.** This is one of the best for making sugar. The skin is a creamy color and flesh is white..... Oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.25

**WHITE KLEIN WANZLEBEN SUGAR.** The beet contains 15 to 16 per cent sugar, and yields, under an average condition, 16 tons to the acre. It has a long, slender root, and grows deeply sunk into the ground..... Oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.25

Write for special quotations on large quantities.

### BRUSSELS SPROUTS

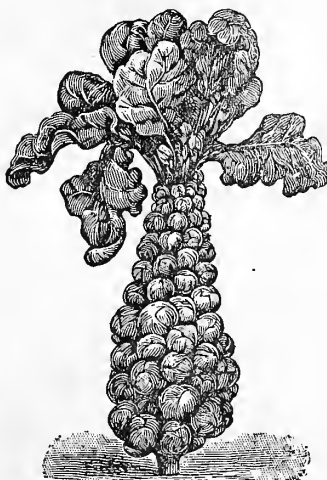
#### Rosenkohl

#### Col de Bruselas

This another member of the Cabbage family. They form a straight stalk which bears on all sides a large number of miniature cabbages. These have a particularly fine flavor and are esteemed a delicacy by many.

Brussels Sprouts are more hardy than cabbage, and in mild climates may remain in the open ground all winter, the heads being removed as desired. For winter use in cold localities, take up plants that are well laden with heads and set them close together in a pit, cold frame or cellar, with a little soil around the roots.

Pkt. 5c; oz. 30c;  $\frac{1}{4}$ -lb. \$1.00



BRUSSELS SPROUTS

### Remolachas Forrajetas

### STOCK BEETS

**YELLOW GLOBE MANGEL.** This beet is easily pulled and more delicate than the Long Red.... Oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.25

**GOLDEN TANKARD.** This is a yellow beet, the most prolific variety, and very nutritious. It is one of the most profitable varieties for stock feeding.

Oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.25

**MAMMOTH LONG RED MANGEL.** These roots attain an enormous size and it is a fine variety for feeding.

Oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.25

**RED GLOBE MANGEL.** This variety is especially adapted to shallow soils. It is a large, round beet, red-skinned and white fleshed. It is an excellent keeper.

Oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.25



**GIANT HALF SUGAR MANGEL.** This beet combines the large size of the Mangel with the great feeding value of the Sugar Beets. The flesh is white, crisp and very sweet, and the beet grows well above the ground. We recommend it especially.

Oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.25

### BROCCOLI

#### Spargelkohl

#### Coliflor de moradu

This plant belongs to the family of "Brassica" and is cultivated like Cabbage, Cauliflower and the other members of that family. Sow early in the spring, then transplant and set out. It will form heads like Cauliflower, but it is more hardy and of a less delicate flavor. It is grown in cold localities to some extent, and also in the South for winter use.

#### Purple Cape:

Pkt. 5c; oz. 50c;  $\frac{1}{4}$ -lb. \$1.50

#### Large White Mammoth:

Pkt. 5c; oz. 50c;  $\frac{1}{4}$ -lb. \$1.50

If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices

## CABBAGE

**Weisskraut**

**Col Repello**

**CULTURE.** For early cabbages sow the seed in a hotbed in March or April, covering the seed from  $\frac{1}{4}$  to  $\frac{1}{2}$ -inch deep and when big enough transplant to another bed. As soon as the ground is in good condition transplant outside in rows 2 feet apart and 15 to 18 inches in a row. The soil should be mellow, rich and well drained. For late crops the seed can be sown in a cold frame, or even in the open ground, and then transplanted in rows 3 feet one way and 2 feet the other, so as to be able to work with a horse and cultivator. One ounce of saltpeter dissolved in 3 gallons of rain water sprinkled over the cabbage or cauliflower will destroy the green worm. The liquid being clear does not color the cauliflower or cabbage heads. Fine air-slacked lime or tobacco dust sifted on the young plants as soon as the fleas appear on the ground will prevent them from doing harm. One ounce of good seed will produce 2,000 plants. About 16,000 early or 8,000 late cabbage plants to one acre.

**Danish Stonehead**

(see Novelties)

**Copenhagen Market**

### EARLIEST VARIETIES



**TRUE JERSEY WAKEFIELD.** This is a most remarkable variety, particularly adapted to the wants of market gardeners. It heads evenly from the latter part of June to the beginning of July. It is erect in growth and has cone-shaped heads.

Our stock is of the true Long Island type, and is sure to give satisfaction..... Pkt. 5c; oz. 45c;  $\frac{1}{4}$ -lb. \$1.60

**EARLY WINNINGSTADT.** A well-known and popular early variety, but matures a little later than the Early Wakefield. The heads are large, solid and hard even in summer, decidedly conical, with bright glossy green leaves. This is a sure heading variety, valuable not only for early use, but also for winter cabbage. It is a favorite with the krautmakers.

Pkt. 5c; oz. 45c;  $\frac{1}{4}$ -lb. \$1.60

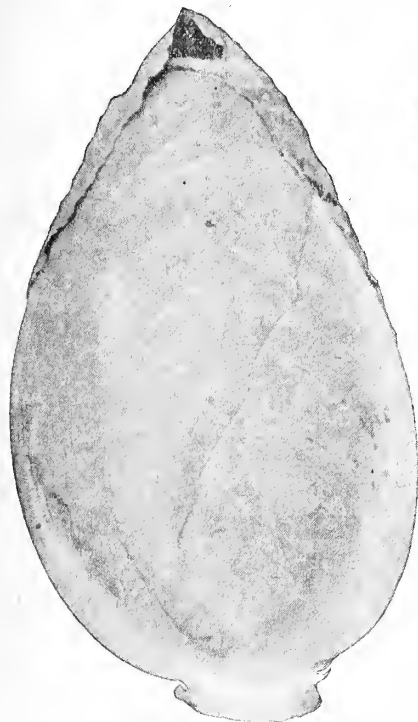
**EARLY YORK.** This is one of the earliest varieties, but it is not a very large size, nor will it stand extreme summer heat.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.25

**EXTRA EARLY EXPRESS.** This variety produces fair sized heads in 80 to 85 days from time of sowing. The heads are not as large as the Etampes, but are matured several days earlier.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.25

**EXTRA EARLY ETAMPES.** One of the very earliest and produces heads which are remarkably hard for a cabbage that ripens so early. The planter is always surprised at the extreme earliness of its maturity..... Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.25



**JERSEY WAKEFIELD**

### SECOND - EARLY OR ROUND-HEAD VARIETIES



**THE GLORY CABBAGE.** This cabbage was recently introduced from Holland. It combines earliness with good size, qualities which are both very desirable for market purposes. This is easily one of the best sellers on the market.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.50

**ALLHEAD EARLY.** This is the earliest cabbage of the large early sorts and cannot be recommended too highly. It is larger than other varieties of its class and grows remarkably uniform.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.25



**THE GLORY**

**SCOTT'S CROSS OR GREELEY MARKET CABBAGE.** This cabbage is one of the best for medium early crops. It originated near Greeley, Colo., several years ago and has been improved ever since so now it ranks among the best, if not the best. It is a cross between the Winnigstad and Flat Dutch, and possesses all the good qualities of both. It is medium early, making a medium to large sized head, well flavored. This plant is almost lice-proof and a sure header..... Pkt. 10c; oz. 60c;  $\frac{1}{4}$ -lb. \$2.00

**If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices**



## CABBAGE—Continued

**EARLY SUMMER.** This variety is about five days later than the Wakefield, being fully double the size. In weight it is equal to most of the late varieties, and its short outer leaves enable it to be planted nearly as close as the Wakefield.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.35

**EARLY DWARF FLAT DUTCH.** A very popular variety because of its heat-resisting character. It never flaws under the most severe heat, and produces heads after the earliest varieties have disappeared.....Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.35

**EARLY SPRING.** Its great value lies in its being a first early flat cabbage, a type much preferred over the pointed heads by many. It is of the "Allhead Early" type, resembling it in habit of growth, but smaller, and is nearly as early as the Wakefield. The heads have few outside leaves, and these are small and grow so close to the head that they can be planted very close together. It is round in shape, slightly flattened, very solid even before the cabbage attain their mature size.....Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.35

**FOTTLER'S BRUNSWICK.** This is a good second early variety.....Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.35

**ALL SEASONS.** A Drumhead cabbage as early and every way as good as Early Summer. This cabbage, while it matures a day or two later in the spring, when planted in July matures a day or two earlier than Early Summer in the fall, so that it will average as early, while the solid heads are from a third to a half again as large, and they are as good for winter use as for summer use.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.35

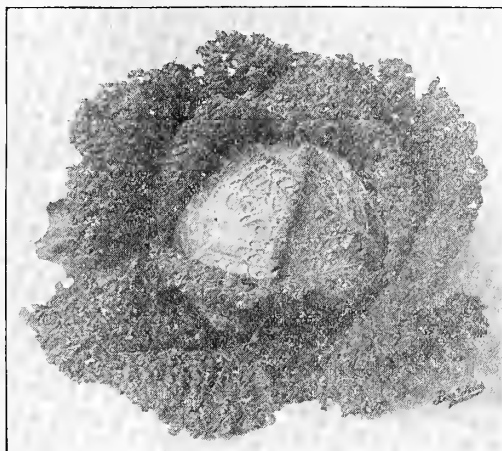
## MAIN CROP OR WINTER VARIETIES

### COPENHAGEN MARKET

See Novelties

**THE DANISH BALL-HEAD.** This variety of cabbage is grown exclusively for winter use by the Dutch gardeners, who brought it to perfection. The heads are perfectly round, extremely solid, fine grained, bear shipping well, and will keep far into the spring. It requires the full season to mature its heads alone.

Pkt. 5c; oz. 50c;  $\frac{1}{4}$ -lb. \$1.75.



SAVOY

**ST. LOUIS LATE MARKET.** This variety is very popular with the kraut-makers. The plant is very vigorous and hardy, the leaves are large and broad, the stem of moderate length, the head is large, white and solid and seldom bursts.

Pkt. 5c; oz. 45c;  $\frac{1}{4}$ -lb. \$1.50.

**SUREHEAD.** It is remarkable for its certainty to head and produces large, round, flattened heads of the Flat Dutch type.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.25.

| Varieties  | Pkt. | Oz. | $\frac{1}{4}$ -lb. | Lb. |
|--|------|-----|--------------------|-----|
| Premium Flat Dutch. Large fall and winter variety, particularly adapted to Kansas..... | 5c   | 40c | \$1.25             |     |
| Late Large Drumhead. This Cabbage is of the same type as the preceding..               | 5c   | 40c | \$1.25             |     |
| Marblehead Mammoth. It is indeed well named, as it is of true mammoth size.....        | 5c   | 40c | \$1.25             |     |

## RED CABBAGE

Danish Stonehead, Page 4

**Rotkraut**

**Repollo Colorado**

**MAMMOTH RED ROCK.** This is by far the largest and surest heading red cabbage ever introduced. The plants are large with numerous spreading leaves. The head is large, round, very solid, and of a deep red color. Ninety-eight per cent of the plants will form extra fine heads.

Pkt. 5c; oz. 50c;  $\frac{1}{4}$ -lb. \$1.75

## SAVOY CABBAGE

**Wirsing**

**Repollo de hojas crespas**

**DRUMHEAD SAVOY.** An excellent winter and spring family cabbage, partaking partially of the size of the Drumhead and the curled leaves of the Savoy. Market gardeners usually find it profitable to provide a limited quantity for discriminating customers; for family use it is equaled by none.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.25

If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices

## CARROTS

**Möhren**

**Zanihorlas**

**CULTURE.** Carrots delight in sandy loam deeply tilled. For early crops, sow in the spring as soon as the ground is in working order; for late crops, sow any time until the middle of June. Sow in rows and do not cover more than one-half inch deep. One ounce to 150 feet of drill; three pounds to the acre.

The late crop should be dug in the autumn and stored the same as parsnips or turnips. The roots of carrots are used at all times of the year, mostly in soups, but they may be boiled and served with butter, or creamed.

### TABLE USE

**EARLY SCARLET HORN.** A very early variety. Recommended for the market and home garden. Texture very fine and very delicate in flavor. Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 60c; lb. \$2.25

**OXHEART OR GUERANDE.** The French Carrot is one of the most valuable varieties either for family use or for the market. It is an intermediate between the half long and the Horn types attaining a diameter of 3 to 4 inches at the neck. It is very productive, rich orange color and beautiful shape. Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 60c; lb. \$2.25

**CHANTENAY OR MODEL.** A nice smooth carrot of perfect and uniform shape. A heavy yielder, a fine table quality, 5 to 6 inches long and easily dug. The flesh is of a deep yellow color, tender and of excellent flavor.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 75c; lb. \$2.50

**DANVERS HALF LONG.** Admirable in color, fixed in habit, a wonderful producer, the best of all for the stock breeder, and valuable to the market gardener. With this variety the planters secure the largest return to the acre, with the least difficulty of harvesting.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 60c; lb. \$2.25

**HALF LONG SCARLET NANTES.** Foliage finely cut, dark and of medium height, roots slender, smooth, and of a bright orange color, flesh orange becoming yellow towards the center, but with no distinct core. Quality very fine. Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 60c; lb. \$2.25

### CARROTS FOR STOCK-FEEDING

**Für Futterzwecke**

**Para Forage**

**IMPROVED LONG ORANGE.** The old standby for both stock feeding and table use, either summer or winter. Fed to milch cows, it increases the flow of rich milk and gives to the butter a fine flavor and a beautiful golden color. Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 60c; lb. \$2.25

**LARGE WHITE BELGIAN.** Grows one-third out of the ground. Root pure white, green above the ground and has a small top. It will grow to a very large size on rich soil, and is very easily gathered. Flesh rather coarse and used exclusively for stock feeding purposes. Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 55c; lb. \$2.00

**LARGE YELLOW BELGIAN.** Practically the same as the above, except that the color of the flesh is yellow. An excellent keeper. Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 55c; lb. \$2.00

Barteldes Seed Co.,  
Lawrence, Kans.

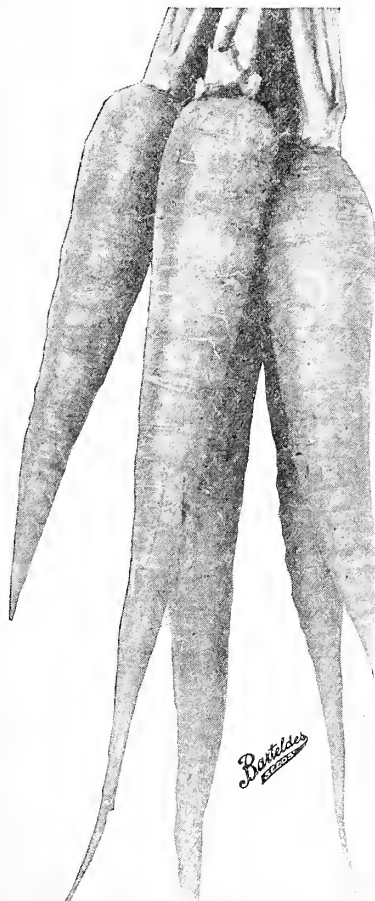
Gentlemen: Please send me your seed catalog. I take Capper's Weekly Paper and I see your big ad in it. I used to deal with you soon after I came home from the war in 1865. I lived on Washington Creek, joining the Poor Farm. You were young in the business then. I want to do some trucking this season and also raise some feed.

Yours respectfully,

J. P. JOHNSON.



**OXHEART**



**IMPROVED LONG ORANGE**



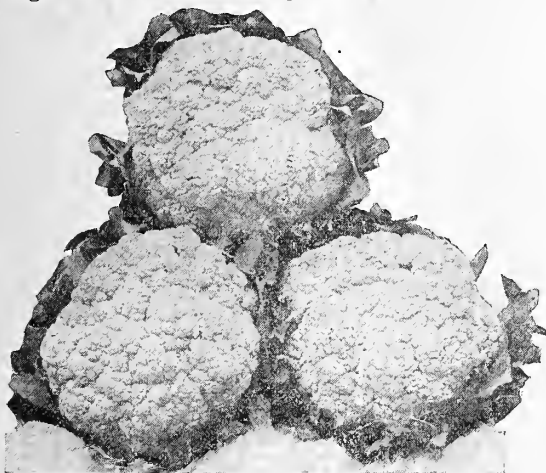
## CAULIFLOWER

### Blumenkohl

**CULTURE.** The same as for cabbage, except that it will pay to use extra manure and plenty of water for Cauliflower. If the soil is dry, water frequently, and if the plants have a heavy mulch of hay or straw, it would keep the soil moist, and the plants would not suffer from drouth. The early kinds should be strong enough to plant out not later than the middle of April; the late kinds may be planted out the same as Cabbage. One ounce of seed produces 1,500 plants; 15,000 plants will cover one acre.

### Coliflor

SEE PAGE 10



**EARLY DANISH SNOWBALL**

**EARLY DANISH SNOWBALL.** This splendid Cauliflower is extremely early, heads with certainty and these heads are of high quality. The plant is dwarf, outer leaves are erect, while the inner leaves lap over the head, protecting it from the sun. It is the finest Cauliflower on the market, and we recommend it to the Market Gardeners especially.

Pkt. 15c; ¼-oz. 85c; oz. \$3.00; 2 oz. \$5.00

**EXTRA EARLY DWARF ERFURT, SELECTED.** This is the choicest strain of the popular Erfurt type and noted for its extreme reliability in heading. Plants are very dwarf with solid, pure white heads of excellent quality. When planted in rich soil early in the spring heads 8 to 10 inches in diameter, can be marketed early in July.

Pkt. 25c; ¼-oz. 85c; oz. \$3.00; 2 oz. \$5.00

**EARLY PARIS.** An excellent French variety, and very popular among the early sorts in the Paris markets. Heads are large, white, compact, solid, of excellent flavor, tender and delicious. Leaves large, stalk short.

Pkt. 5c; ¼-oz. 30c; oz. \$1.00; ¼-lb. \$3.00

### Bleich-Sellerie

**CULTURE.** For early celery sow in March or February, in hotbeds, in drills 4 to 6 inches apart and cover about ¼-inch deep. When fairly out of seed leaf transplant to another bed, thin out to 2 or 3 inches in the row, and leave growing until needed to plant outside. In April plant the field in rows 18 to 20 inches apart, and set six inches in the row. In planting press the ground around the plants, but do not let any earth get into the heart. The soil should be very rich and the plants should be earthed up several times during their growth. Celery needs more water than any other garden crop, and is liable to get soft if not watered sufficiently.

For winter use sow the seed in the latter part of April, or beginning of May, in beds, and transplant in the fields in July. If the roots are to be dug up and put in trenches to bleach, allow two feet between the rows, or if they are to bleach in the same place where grown, allow four feet. When cold weather sets in dig a trench in a high well-drained place, one foot wide, and of a depth of a few inches less than the height of the celery. Set your plants closely in it and cover gradually with straw or hay and earth as the weather gets colder. The top of the trench should be sloping so as to allow the water to run off. One ounce of seed produces 2,500 plants and it takes about 42,000 plants to set one acre if the rows are 2 feet apart.

**GOLDEN SELF-BLANCHING.** This is a beautiful plant of close habit, compact growth, and has straight and vigorous stalks. The ribs are perfectly solid, crisp and brittle. Its delicate flavor is surpassed by no other variety and moreover it has the decided merit of being self-blanching to a very remarkable degree. Our stock of this seed is selected with special care in France.



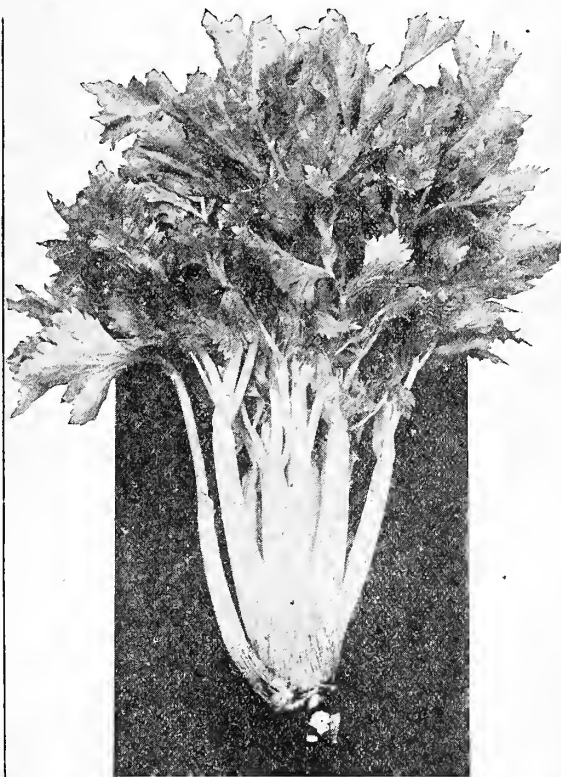
**AMERICAN.** Pkt. 5c; ½-oz. 30c; oz. 50c; ¼-lb. \$1.75; lb. \$6.00.

**FRENCH.** Pkt. 5c; ½-oz. 60c; oz. \$1.10; ¼-lb. \$4.00.

**GIANT PASCAL.** This is a green leaved variety. It bleaches very quickly after earthing up and is a beautiful yellowish white color, very solid and crisp, and of a sweet flavor which is not equaled by any other variety. The stalks grow broad and thick, a single plant making a large bunch. Under high cultivation this variety will give best satisfaction.... Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

## CELERY

### Apio



**GOLDEN SELF-BLANCHING**

**BOSTON MARKET.** The most popular variety in the market of Boston. It forms a cluster of heads instead of single one and is exceptionally tender and crisp. The best variety for light soils.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices**

## CELERY—Continued

**WHITE PLUME.** This celery is valued because the stalks and portions of the inner leaves and heart are white; by simply tying up the stalks and drawing up the soil with the hoe, the work of blanching is completed. It is ornamental, tender, crisp and of good flavor and very early.

Pkt. 5c; oz. 25c; ¼-lb. 80c; lb. \$3.00

**DWARF GOLDEN HEART.** Very popular and distinct variety. In habit of growth it resembles Half Dwarf, except when blanched the heart, which is large and full, is of a waxy golden yellow. It is entirely solid, of excellent flavor, and keeps well during the winter. . . . . Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**HALF DWARF.** When blanched it is of a yellowish white, making it very ornamental for the table; it is entirely solid, possessing the nutty flavor peculiar to the dwarf kinds, while it has much more vigor of growth, surpassing most of the large growing sorts in height of bunch grown under the same conditions.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**LARGE WHITE SOLID.** Of tall growing habit and very handsome in appearance. A splendid pure white variety.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

## CELERIAC OR TURNIP-ROOTED CELERY

Grown exclusively for its roots, which are turnip shaped, very smooth, tender and marrow-like. The roots are cooked and sliced and eaten with vinegar. They make an excellent salad. Are used for seasoning meats and flavoring soups.

Pkt. 5c; oz. 50c; ¼-lb. \$1.50

**CELERY FOR PROFIT.** By Griener. Illustrated. Price 50c



CELERIAC

## CHICORY

**Cichorienwurzel**

**Achicoria**

**LARGE ROOTED OR COFFEE.** A hardy plant introduced from and much used in Europe as a substitute for coffee; large quantities of prepared roots are exported to this country. May be used to good advantage and pay large profit, and its culture is simple. In the fall the roots require to be taken up and cut into small pieces and put where they will dry, requiring the same treatment used for drying apples. When required for use they should be roasted and ground like coffee. Requires similar treatment as carrots.

Pkt. 5c; oz. 35c; ¼-lb. \$1.25.

## COLLARDS

**GEORGIA SOUTHERN OR CREOLE.** This is the variety so extensively used in the South, where it furnishes an abundance of food for both man and beast. Forms a large, loose, open head, or a mass of leaves on a tall stem. Freezing improves the quality. . . . . Pkt. 5c; oz. 10c; ¼-lb. 50c

## CHIVES

**Schnittlauch**

**Ceholettas**

The Chives are small and not very important members of the onion tribe, quite hardy everywhere. The leaves are slender and appear very early in the spring, and may be cut several times during the season. They are propagated by seeds and by roots. The Chives make the very best border for beds in the vegetable garden, and are not only useful, but bearing pink flowers and a mass of golden leaves, are ornamental and are equal to the onion for flavoring soups and salads.

Pkt. 10c; Roots 20c per bunch, 3 for 55c postpaid.

## CORN SALAD

**Stechsalat**

**Macha o Valerinallla**

**BROAD LEAVED.** Used as a small salad throughout the winter and spring. Sow thickly in drills, cover slightly at the beginning of autumn and sprinkle with straw on the approach of severe winter weather, or sow in a cold frame, covered in winter as may be convenient—thus is accessible even when the deep snow prevails.

Pkt. 5c; oz. 25c; ¼-lb. 75c

## CRESS

**Kresse**

**Berro**

Used as a small salad. Sow very thickly in shallow drills; cover on a smooth surface at short intervals throughout the season. . . . . Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c

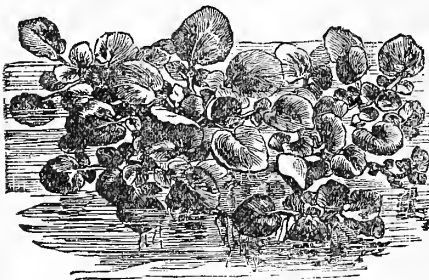
## WATER CRESS

**Brunnen Kresse**

**Berro de Fuente**

Is quite distinct from garden cress, and thrives only when its roots and stems are submerged in water. It is one of the most delicious of small salads and should be planted wherever a suitable place can be found.

Pkt. 5c; oz. 60c



WATER CRESS

## POP CORN

**WHITE PEARL.** A common variety having smooth kernels.

**WHITE RICE.** A very handsome variety; kernels long, pointed, resembling rice. Very prolific, and fine for parching. Does not pop as large as Queen's Golden, but is more tender and better flavor.

**QUEEN'S GOLDEN.** Produces ears in great abundance on stalks nearly six feet high. It pops perfectly white. A single kernel will expand to nearly an inch in diameter.

Prices for all varieties of pop corn:

Pkt. 5c; lb. 20c

Postage 5c per lb. extra.



## SWEET CORN

**Spelse Mals**

**Mals Dulce**

Postage must be added in ordering corn sent by mail. One pound is equal to over three-fourths quart.

**CULTURE.** All varieties of sweet corn may be sown either in rows four feet apart and the seeds planted about eight inches in the row, or planted in hills at a distance of three or four feet each way, according to the variety grown or the richness of the soil in which it is planted. Sweet Corn should not be planted deeper than one to one and a half inches, as it is liable to rot in the ground. Hoe often, drawing the earth against the stems and breaking off the side shoots. One pound to 275 hills. About one-fourth bushel will plant one acre in drills.

### POSTAGE EXTRA

**GOLDEN BANTAM** is the most tender, sweetest, richest, and best evergreen Sweet Corn in existence. It produces strong, sturdy stalks, growing about four feet high. Is extremely hardy and can be grown from the Gulf to the Great Lakes. Each stalk produces three to four fine ears 5 to 6 inches long, having eight rows of sweet kernels. Golden Bantam is the quickest to mature and will give better and quicker results than any other sweet corn we know of. We have found it remarkably free of worms. Don't fail to have some of this splendid corn in your garden next year.

Pkt. 5c; Lb. 40c; 2 lbs. 75c; 10 lbs. \$3.50

**HOWLING MOB.** One of the earliest large varieties, being only 4 to 5 days later than White Cob Cory. The ears are 7 to 9 inches long, 12 and 14-rowed. It generally produces 2 fine ears to a stalk.....Pkt. 5c; ½-lb. 25c; lb. 40c; 10 lbs. \$3.25

**PEEP O'DAY.** Is not only one of the earliest Sweet Corn, but is very sweet and immensely productive, stalks producing from 2 to 5 large size ears and being dwarf, about 4 feet in height, admits a close planting.

Pkt. 5c; ½-lb. 25c; lb. 40c; 10 lbs. \$3.25

**EXTRA EARLY ADAMS.** This is not a true sweet corn, but on account of its hardness and its round, hard grains it can be planted much earlier than the wrinkled sort sugar corn. The ears are well filled with tender white kernels. It is usually ready a week earlier than the Cory.....Pkt. 5c; lb. 30c; 2 lbs. 55c; 10 lbs. \$2.50

**WHITE MEXICAN.** This new variety of recent introduction is 4 to 5 days earlier than the White Cob Cory and has all the delicious sweetness of Black Mexican.

Pkt. 5c; lb. 35c; 2 lbs. 65c; 10 lbs. \$3.15

**MAMMOTH WHITE CORY.** The large extra early Sweet Corn. The ears are 12-rowed, white-cobbed, covered with very large white grains of good quality, and very much larger than the old Cory.....Pkt. 5c; lb. 35c; 2 lbs. 65c; 10 lbs. \$3.15

**WHITE COB CORY.** Selected for white cob and white kernel from the original and earliest.

Pkt. 5c; lb. 35c; 2 lbs. 65c; 10 lbs. \$3.15

**EARLY MINNESOTA.** This is among the earliest of the sugar varieties, and is much esteemed, not only because it matures earlier, but because of its excellent qualities as well. Ears rather small long and pointed.....Pkt. 5c; lb. 35c; 2 lbs. 65c; 10 lbs. \$3.15

**EARLY EVERGREEN.** Like Stowell's Evergreen, only ten days earlier. Ears large, about 18 inches long, 12 to 16-rowed, and having the identical flavor of the famous Stowell's Evergreen.

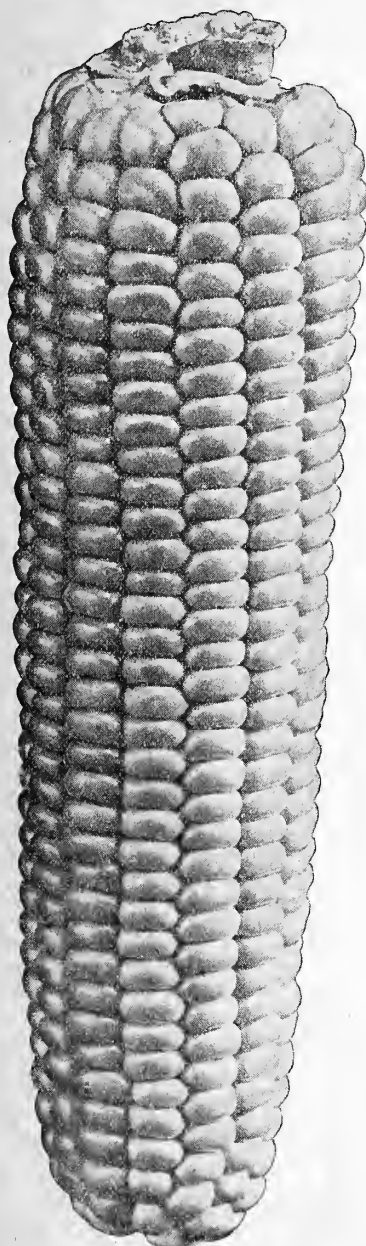
Pkt. 5c; lb. 35c; 2 lbs. 65c; 10 lbs. \$3.15

**BLACK MEXICAN.** The sweetest and most desirable for family use. When dry the kernels are black.

Pkt. 5c; lb. 35c; 2 lbs. 65c; 10 lbs. \$3.15

**STOWELL'S EVERGREEN.** This variety is more largely planted than any other, and is the general favorite with canners and market gardeners for late use. It is very productive, the ears are of large size, grains deep, exceptionally tender and sugary and remain for a long time in an edible condition.

Pkt. 5c; lb. 35c; 2 lbs. 65c; 10 lbs. \$3.15



STOWELL'S EVERGREEN  
(The Standard)

**COUNTRY GENTLEMAN.** The ears are not only of good size, but are produced in great abundance, one stalk frequently bearing four good ears while the average is three to a stalk. The cob is very small, giving great depth to the kernels, which are of pearly whiteness..Pkt. 5c; lb. 40c; 2 lbs. 75c; 10 lbs. \$3.50

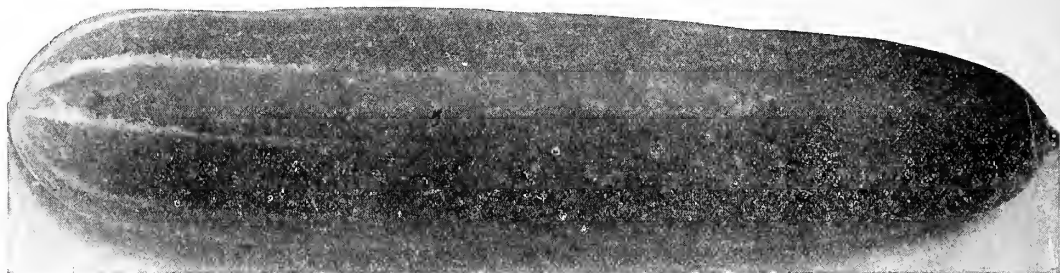
**If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices**

## CUCUMBERS

### Gurken

**CULTURE.** For early, sow seed in hotbed in small pots and plant out when danger of frost is over. They can be marketed with a gain of six or seven weeks over those sown in the open ground. For general crops drop in hills four to six feet apart, as soon as the weather is warm, ten to twelve seeds in a hill, cover half an inch deep and pat it down with the hoe. Hoe often, and when out of danger of insects, thin out to three or four plants to a hill. Middle of June to July 1st is the right time to sow for pickles. Pick fruits as soon as big enough to use or the productiveness will be injured. One ounce will plant about 50 hills. Two pounds to one acre.

### Peplas



DAVIS PERFECT

**DAVIS PERFECT.** This is one of the very best cucumbers grown, both for forcing and for out-of-doors. It is slim and symmetrical in shape and from 9 to 12 inches long and of a dark glossy, green color changing to white, without a streak of yellow, only when nearly ripe.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**IMPROVED LONG GREEN.** This is unquestionably the most popular for general use. When matured is 9 to 12 inches long. Flesh is very solid, crisp and of delicate flavor. The skin is dark green and retains its color for a remarkably long time.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.50

**EARLY FRAME.** Popular both for table and pickling purposes. Growth vigorous, vines very productive, fruit medium size.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**EVERBEARING.** This variety is of small size; very early, enormously productive, and valuable as a green pickle. Its peculiar merit however, is that the vines continue to flower and produce fruit until killed by frost, whether the cucumbers are picked off or not. . . . . Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**COOL AND CRISP.** A popular extremely early variety of the White Spine type. Very prolific and produces large numbers of medium-sized cucumbers, excellent for table use. The fruit is 6 to 8 inches long, distinctly tapering, with a dark skin thickly set with small knots.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**EARLY WHITE SPINE.** Vines vigorous, bearing early and abundantly. Fruit uniformly straight and handsome, dark green, with a few white spines. Flesh tender and of excellent flavor. Used extensively for forcing under glass.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**EXTRA LONG WHITE SPINE.** A selection of the White Spine. Is very uniform in size and exceedingly early, at the same time makes a long growth—10 to 12 inches.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25



EARLY WHITE SPINE

**EARLY RUSSIAN.** One of the earliest in cultivation, resembles the early frame, but is smaller and shorter. . . . . Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**EARLY GREEN CLUSTER.** A very popular early cucumber, producing its fruit in small clusters near the root of the plant. Average length is about 5 inches, skin prickly, flesh white, seedy, tender and well flavored. . . . . Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**ARLINGTON WHITE SPINE.** This is the strain so popular around Chicago for growing under glass.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**CHICAGO OR WESTERFIELD PICKLING.** Very popular with Chicago market gardeners.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**SHORT PROLIFIC.** A very short variety of the "Frame" type. It is an abundant bearer, and is highly recommended for pickles, for which it is used extensively in New York State.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**BOSTON PICKLING.** The fruit abundantly borne, averages 4 to 5 inches in length and is of excellent quality.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**PARISIAN PICKLING.** A decidedly distinct variety used mostly for making French pickles.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**JAPANESE CLIMBING.** While all cucumbers are running vines, this variety is much more so than others. It climbs quickly on poles or trellises and is entirely distinct. The quality is splendid and well adapted for pickling and salads. The greatest advantage of having a cucumber trained on a pole or fence is evident.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75

**WEST INDIA GHERKIN.** The fruit is very small, almost round and closely covered with spines.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$ -lb. 75c; lb. \$2.50

**BARTELDES' SELECT PICKLE.** An improved strain of Boston Pickle. More symmetrical, holds its color longer and immensely productive.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75



## ENDIVE

Endivien

Escaroly e Endibla

Culture the same as lettuce. A desirable salad. When bleached by exclusion of the sun, gather all the leaves and tie them for a couple of days. Open after a rain to give them a chance to dry out, as otherwise the leaves begin to rot. The inside will turn into a beautiful yellowish-green, making the plant very attractive for salads and garnishing.

| Varieties  | Pkt. | Oz. | ¼-lb. | Lb.    |
|--|------|-----|-------|--------|
| Green Curled, the hardy variety.....                                     | 5c   | 15c | 50c   | \$1.75 |
| Broad Leaved Batavian, very thick leaved.....                            | 5c   | 15c | 50c   | 1.75   |
| Moss Curled, plants compact, large leaves, green and finely divided..... | 5c   | 15c | 50c   | 1.75   |

## EGG PLANT

Eierpflanze

Berenjena

**CULTURE.** Sow in hotbeds very early in the spring; thin them out as soon as big enough to be handled to 3 or 4 inches each way, and transplant to 2 or 3 feet apart in very rich warm ground. Do not plant them outside till nights are real warm, as the least frost will, if it does not kill them, check the growth, and it will take 2 or 3 weeks before they get over it. Hoe often and hill up gradually till they blossom. One ounce to 1,500 plants.



**NEW YORK IMPROVED LARGE PURPLE SPINELESS.** This variety has about superseded all others both for market and home garden; a favorite everywhere. Our stock is extra selected direct from the best growers in New Jersey.

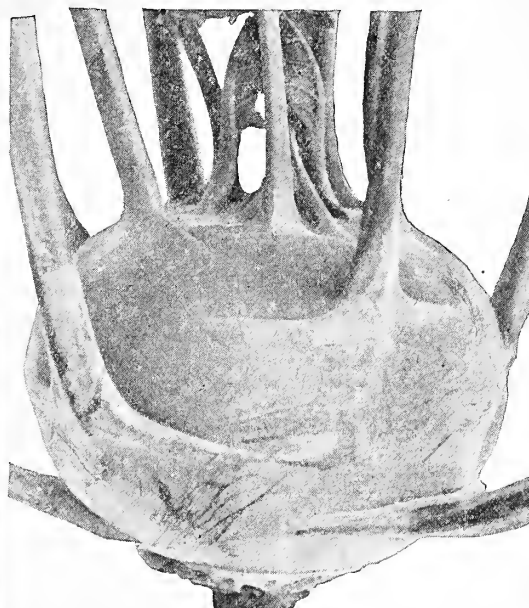
Pkt. 5c; ¼-oz. 20c; oz. 60c; ¼-lb. \$2.00

**EARLY LONG PURPLE.** This is the earliest variety; very hardy and productive; fruit long and of superior quality.

Pkt. 5c; ¼-oz. 20c; oz. 60c; ¼-lb. \$2.00

**BLACK BEAUTY**—See Novelties.

## KOHLE-RABI



**CULTURE.** Sow in the spring in row 38 inches, afterwards thin out to 8 or 10 inches in the row. The edible part is a turnip-shaped bulb, formed by the enlargement of the stem. When used for the table this should be cut when quite small as it is then very tender and delicate; but if allowed to reach its full size, it becomes tough and stringy. One ounce will produce 2,000 plants.

| Varieties  | Pkt. | Oz. | ¼-lb. |
|--|------|-----|-------|
| Early White Vienna. The earliest and best for forcing.....                                   | 5c   | 20c | 75c   |
| Early Purple Vienna. Both Vienna Kohl-rabis are very tender and excellent for table use..... | 5c   | 20c | 75c   |

## GARLIC

Knoblauch

Ajo

The garlic is the most pungent of all the onion family. It is much used in the south of Europe. The root, or bulb, is composed of many small bulbs called "cloves," which are planted in the spring 6 to 8 inches apart, and in August the bulbs are ready to gather. Write for prices on large lots. . . . Lb. 35c

## HORSE RADISH

Meerrettig

Rabano Rustico

Horse radish produces no seed, but is grown from pieces of the root.

**CULTURE.** Mark off rows 2½ feet apart in rich moist, well-prepared ground, and set the pieces of roots 18 inches apart in rows, vertically, the small end down. Cultivate thoroughly until the tops cover the ground, when their shade will keep down the weeds.

See page 8.  
Small roots 20c per dozen; 85c per 100, postpaid  
If wanted in quantity, ask for special prices.

## KALE OR BORECOLE

Krauskohl oder Blatterkohl

Col rizada

**DWARF GREEN GERMAN.** Sow in the spring for "sprouts" or "greens". Hardy prolific, flavor similar to cabbage; desirable in every garden.

Pkt. 5c; oz. 20c; ¼-lb. 60c

**TALL GREEN CURLED OR SCOTCH.** This is one of the most popular varieties. It is very hardy and is much improved by frost. Two feet high.

Pkt. 5c; oz. 20c; ¼-lb. 60c

## LEEK

Porree oder Lauch

Puerro

**CULTURE.** A hardy species of onion, sown in drills or broadcast. When 6 inches high transplant into rows a foot apart, setting the plants 4 or 5 inches deep and about 6 inches apart in the row. Used mostly in soups and stews. One ounce to 1,000 plants.

**LARGE LONDON OR SCOTCH FLAG.** This leek, aside from being valuable for soups and salads, when blanched, makes an excellent dish if sliced and cooked. . . . Pkt. 5c; oz. 40c; ¼-lb. \$1.25

## LETTUCES

### Salat

**CULTURE.** Lettuce is grown under glass during the winter months and brings a fair profit. For general crops sow as soon as the ground is open, in drills fifteen to eighteen inches apart, and thin out to six or eight inches in the rows. As they do best when growing quickly, the soil should be rich and well worked. The seed may be sown every two weeks. If wanted as a cut salad, sow thickly in rows, or broadcast, and cut when needed. One ounce to 80 feet of drill; 4 pounds to an acre. One ounce to 3,000 plants.

### Lechuga



MAY KING

### EARLY AND FORCING VARIETIES

**MAY KING.** The best Butterhead lettuce for forcing, as well as early spring planting in the open ground. It is extremely hardy and therefore can be planted very early in the spring. It makes a quick growth, forming when mature, attractive heads measuring 10 to 20 inches across. The outside leaves are tightly folded, making the plant practically all head. It has a rich buttery flavor which is delicious. We recommend it particularly to Market Gardeners, as the tightly folded heads carry well, and will out-sell any other.

Pkt. 5c; oz. 10c; ¼-lb. 35c; lb. \$1.25

**BIG BOSTON.** This variety resembles the well known Boston Market but produces heads almost double the size and matures a week later. Endures hot weather exceedingly well. . . . . Pkt. 5c; oz. 10c; ¼-lb. 35c; lb. \$1.25

**WHITE SEEDED TENNIS BALL.** One of the best varieties of headed cabbage lettuce for growing under glass. Very hardy, with thick, crisp, and tender leaves. Forms a compact head under glass, but unless planted very early is apt to be loose in the open air. . . . . Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**EARLY OHIO—SELECTED.** An excellent Head Lettuce for forcing or outdoors. The leaves are light green, blistered, very crisp and tender and of delicious flavor. . Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**GRAND RAPIDS.** For greenhouse forcing this variety has few equals. It is of quick growth, little liable to rot, and can stand some days after being cut. The plant is upright and forms a loose head or cluster of large yellowish-green leaves which are slightly crimped, blistered and rather thin. Is a good shipper.

Pkt. 5c; oz. 10c; ¼-lb. 35c; lb. \$1.25

### LOOSE-HEAD OR CUTTING VARIETIES

The best of these is the Black Seeded Simpson. It produces even larger bunches of leaves than the popular Curled Silesian or Curled Simpson, and remains in good condition longer before running to seed. For late summer use, after the season for head lettuce is passed, we would especially recommend the Early Prizehead. This variety forms large, loose heads, with finely curled leaves, lightly tinged with brown. It grows to large size and will stand for a considerable time before running to seed.



EARLY CURLED SIMPSON

| Varieties  | Pkt. | Oz. | ¼-lb. | Lb.    |
|--|------|-----|-------|--------|
| Black Seeded Simpson. Good for forcing as well as outside culture. . . . .               | 5c   | 10c | 30c   | \$1.00 |
| Early Curled Simpson. Highly recommended for general culture. . . . .                    | 5c   | 10c | 30c   | 1.00   |
| Early Curled Silesian. The old favorite. Golden leaves with finely curled edges. . . . . | 5c   | 10c | 30c   | 1.00   |
| Early Prizehead. Good variety, bright green, tinged with brownish red. . . .             | 5c   | 10c | 30c   | 1.00   |

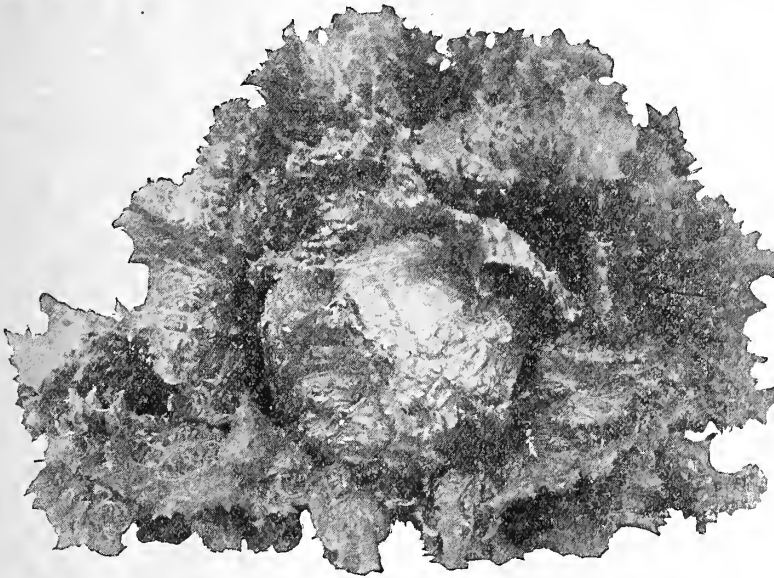




## LETTUCES—Continued

### Barteldes' Denver Market

It is an early variety of head lettuce either for forcing or open ground. It forms large solid heads of a good light green color and is very slow to seed. The leaves are beautifully marked and blistered, very crisp and tender and of excellent flavor. By these blistered leaves it distinguishes itself from any other kind of head lettuce now grown. Buy from us and get the true stock. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00



HANSON

### Hanson

The heads are of a very large size, deliciously sweet, tender and crisp, even to the outer leaves; heads weigh 2½ to 3 pounds and measure 1½ feet in diameter. Color green outside and white within; free from any bitter, unpleasant taste. Not recommended for forcing, but has few superiors for family use. Pkt. 5c; oz. 10c; ¼-lb. 35c; lb. \$1.25

### Lettuce—Iceberg

This remarkable sort belongs to the "Crisp Head Cabbage Lettuces" and is a decided acquisition. It forms a large solid head, the only outside leaves being of a light green color, while the inside is being bleached, and is almost white. It is quite as well adapted for planting in the summer as in the spring, as the hottest summer weather cannot cause the leaves to open outward and expose the heart. The usual solidity of heads makes it, in our opinion, the ideal summer lettuce, and we strongly recommend our customers to give this splendid variety a trial. Pkt. 5c; oz. 10c; ¼-lb. 35c; lb. \$1.25

### All Seasons

All Seasons Lettuce is a distinct black-seeded variety forming splendid solid heads of a light silvery green color. These heads are large and will "stand" longer before going to seed than those of any other Butterhead variety. The leaves are of a rich yellow color, crisp, tender, and of mild flavor.

Pkt. 10c; oz. 15c; ¼-lb. 30c; lb. \$1.00

### Silver Ball

This lettuce produces a beautiful head, very firm, solid and compact, with handsomely curled leaves.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

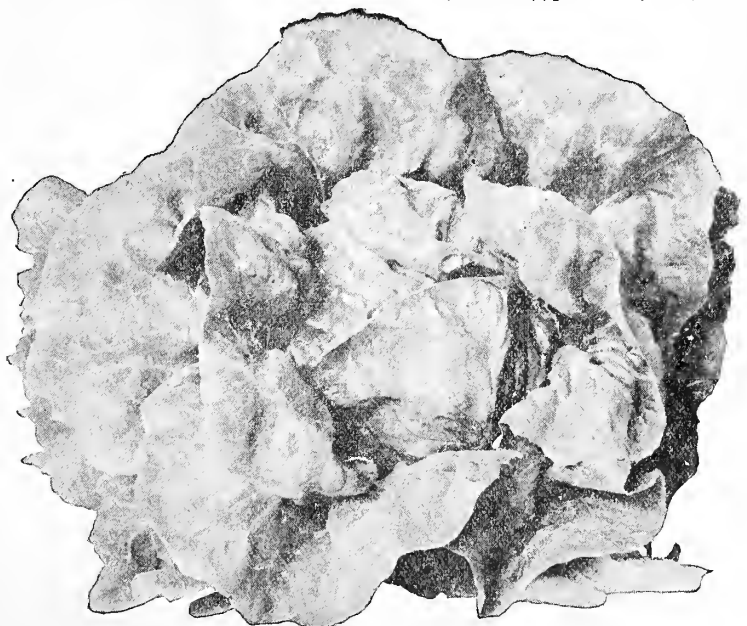
### California Cream Butter

Heads large, round and of a beautiful appearance. The outer leaves are glossy green, marked with small brown spots; the inner leaves are of a rich color. Medium early, and makes a good sort for summer use. Quality is very good. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

### Paris White Cos

The Cos or Celery Lettuce is different from other variety in that it has narrow spoon-shaped leaves. These fold into heads and blanch better when the outer leaves are drawn up and tied.

The Paris White Cos forms large light green plants, well-folded and quite solid. The inner leaves are well-blanching and of a crisp, fine flavor. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00.



CALIFORNIA CREAM BUTTER

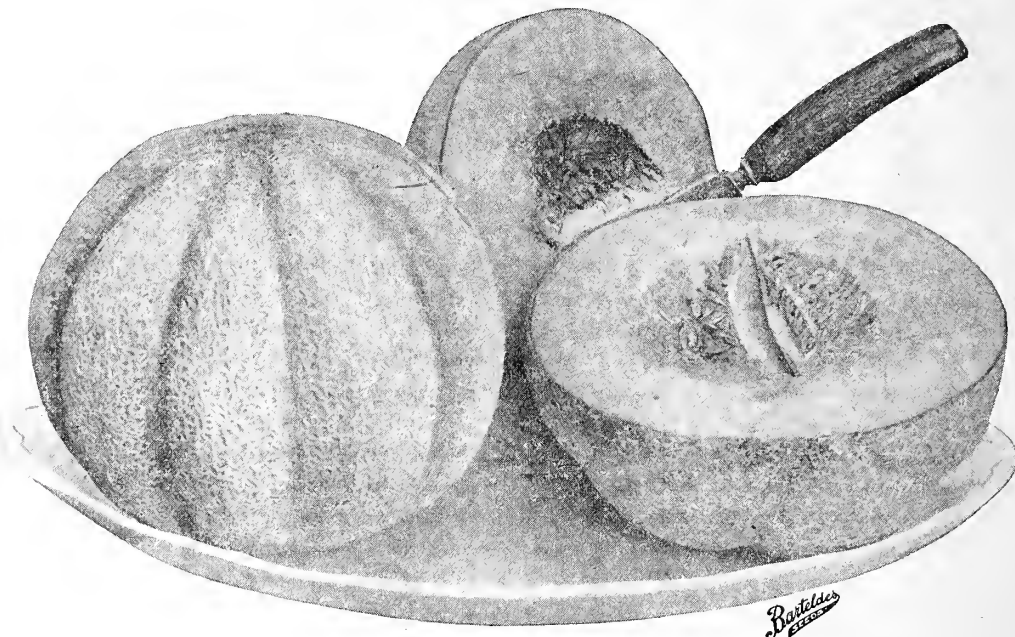
## MUSK MELONS

**Zucker Melonen**

**Melon almizelena o centalu**

**CULTURE.** The soil for Musk Melons must be light, rich and sandy, for if grown on a heavy soil the quality will be poor, and they will not be so early. When there is no danger of frost drop 8 to 10 seeds in hills 6 feet apart, each way, covering about three-fourths inch deep. As soon as a plant commences to run, thin out to 3 best plants in a hill and cultivate until the vines cover the ground. If slow to fruit, pinch off the ends of the growing shoots. Ash or air-slacked lime sifted on the young plants while the dew is on is good to keep insects out. One ounce will plant about sixty hills, and it takes 3 pounds to one acre.

### GREEN-FLESHED VARIETIES



**THE ROCKY FORD**

This melon, grown first in Rocky Ford, Colorado, has in a few years acquired a national reputation. It is of the Netted Gem type, oval in shape, averaging from  $4\frac{1}{2}$  to 5 inches in length. It has a most delicious flavor, is very fine and smooth grained, has flesh of light green color throughout when ripe. Our seed comes from Rocky Ford where this melon is raised so extensively and from where carloads upon carloads are shipped out every season. . . . . Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**EDEN GEM RUST-RESISTING.** This new strain of Cantaloupe is the product of several years' careful selection from the strongest and most vigorously growing plants.

In comparing the vines and fruits of the common strain with this new strain we found that the melons, hidden under a healthy growth of vines, were larger, more solidly netted with thick, firm flesh, and small seed cavity completely filled with seeds.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 45c; lb. \$1.50; 4 lbs. \$5.50

**MONTREAL MARKET.** This variety is nearly round, flattened at the ends, and very regularly ribbed; skin green, deeply netted; flesh remarkably thick, light green, melting, and of a delicious flavor. They are very regular in shape and uniformly grow to a very large size.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**EXTRA EARLY CITRON.** Earlier than any other cantaloupe, large, showy, and of fine flavor. This variety will also be found profitable by all market gardeners, and desirable also in the private garden until late varieties become fit for use.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**NETTED GEM.** Practically the same as the "Rocky Ford." It has become one of the most popular of small, or basket melons. The description of the Rocky Ford is also to be applied to this variety. We offer an exceptionally fine stock.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**CASABA, OR LARGE PERSIAN.** Long, oval-shaped, skin very thin and delicate; flesh extremely tender, rich and sweet.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**BAY VIEW.** A large, prolific and finely flavored green-fleshed melon. It is larger than the Casaba, but not quite so pointed at the ends. A very showy variety and of good quality.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**THE HACKENSACK OR TURK'S CAP.** The most popular variety of musk melon grown for market by gardeners in the vicinity of New York. It attains a large size, is round in shape, flattened at the ends; it is of most delicate flavor and wonderfully productive.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**EXTRA EARLY HACKENSACK.** By careful selection and improvement carried on for some years this strain has been developed so that it produces melons with all the good qualities of the well-known Hackensack Melon, but at least ten days earlier.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**NETTED NUTMEG.** We consider this the very best variety in cultivation. Vines vigorous, hardy, productive, fruit round, slightly flattened at both ends, ribbed, covered with coarse netting; flesh very thick, green and of the highest flavor.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

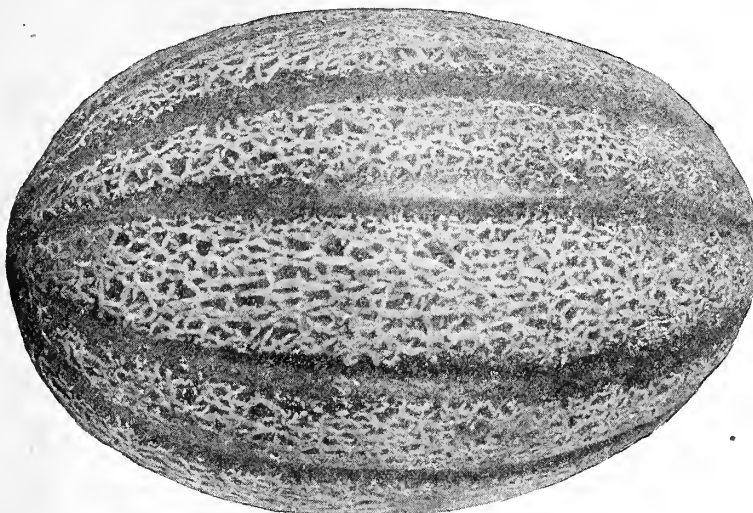
**If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices**





## MUSK MELONS—Continued

### YELLOW-FLESHED VARIETIES



**BURREL'S GEM**

It was hard to beat the Rocky Ford, and yet it has been done. The new variety has a salmon flesh of unusual thickness and flavor that can hardly be surpassed. The flesh is  $1\frac{1}{2}$  to 2 inches thick, the rind is heavily netted, slightly ribbed, and very thin. The melons grow to an average size of six inches in length and  $4\frac{1}{2}$  inches in diameter, weigh about 2 pounds apiece.

They are ideal shipping melons, and notwithstanding the thin rind, have stood shipment from Colorado to New York in perfection. The Burrell Gem has brought more money in the open market than any other variety. A crate containing a dozen melons sold for one dollar in carload lots, and frequently a dozen melons are picked from one hill.

We recommend this new melon very highly and encourage extensive planting.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**EMERALD GEM.** This is a variety of excellent quality; it is of medium size. The skin is, while ribbed, perfectly smooth and of deep emerald green color, and ripens to the green rind. It is peculiarly crystalline in appearance, and so very juicy and rich that it almost drops to pieces when dipped out with a spoon. The flavor is very sweet and luscious. The vines are hardy and very prolific, and the melons mature extremely early.

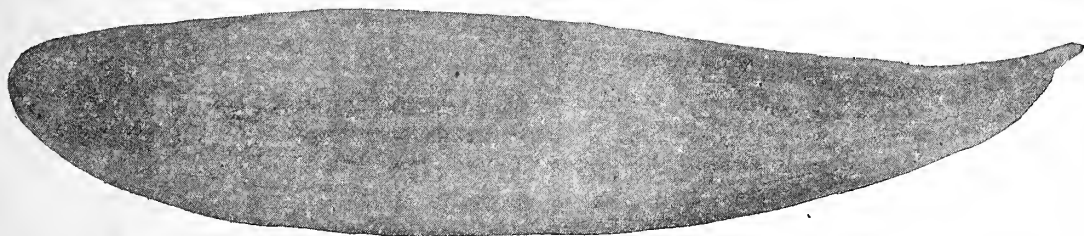
Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**OSAGE OR MILLER'S CREAM.** The great popularity which this melon has attained is due mainly to its luscious spicy flavor and its perfect shipping qualities. The skin is very thin, and of a dark green color and slightly netted. The flesh is of a salmon color, remarkably sweet, extremely

thick, and delicious to the rind. It is also very productive.... Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**DEFENDER.** A splendid variety. It is one of the very best yellow-fleshed sorts and in some respects is far superior to any of this class. The fruit is medium-sized, oval in shape, slightly ribbed, covered with gray netting. The flesh is firm, finely grained, and of a rich, deep yellow color. The flesh extends to the rind and retains its color hard and firm, so that one can remove the edible portion with a spoon, leaving a rind no thicker than that of an orange. The vine is vigorous and very productive, fruit, because of the hard, firm rind, keeps and bears shipment remarkably well. One of the most desirable of the yellow-fleshed sort, either for the home or the market garden.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10



**BANANA MELON**

**BANANA.** An entirely distinct variety, bearing long slender banana-like fruit. Flesh deep salmon color, thick and of good quality.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 40c; lb. \$1.25

**PEACH OR GARDEN LEMON.** The fruit is about the size of a large peach, oval-shaped and of a bright orange yellow color, somewhat russeted. When it first ripens it is quite hard and has very little flavor, but they soon become mellow, not sweet, and have a rich flavor, but for sweet pickles, pies, or preserving, they are superb.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 45c; lb. \$1.50

**PAUL ROSE.** A cross of Osage and Netted Gem, and best of the salmon, or red-fleshed sorts. Flesh unusually thick, firm and delicious; well-netted and fine for market... Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 35c; lb. \$1.10

**KHIVA OR WINTER MUSK MELON.** Musk melon for Christmas dinner. You can have such and from your own garden, if you plant Khiva. It is the most delicately flavored winter keeping melon we have ever eaten. The skin is firm, with a grayish color, green slightly mottled. Is of egg shape and weighs 12 to 30 pounds. Not real delicious until November or later. They keep nicely until January..... Pkt. 10c; oz. 30c

If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices

## WATER MELONS

### Wassermelonen

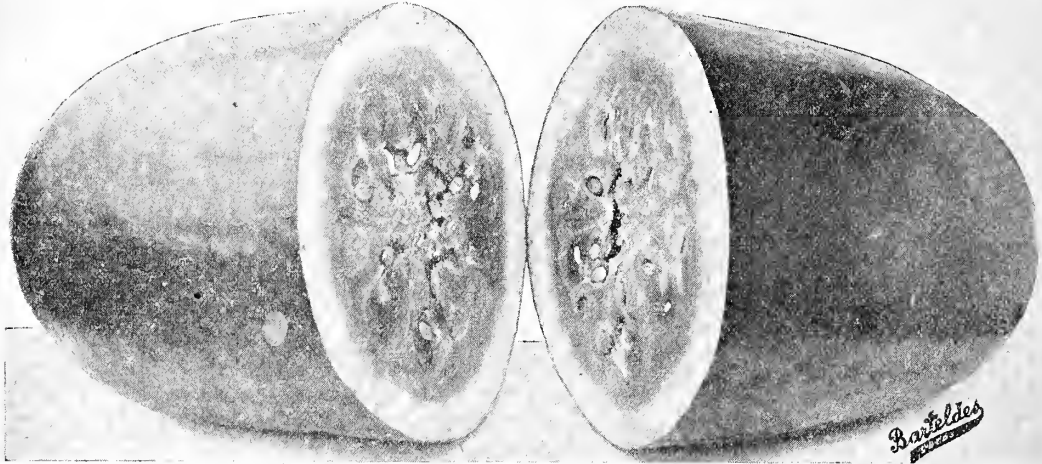
### Sanhlos

We grow Water Melons on a very large scale and are in a position to offer the very best seed at reduced prices.

Melon seed has been one of our specialties for years and we supply many of the leading seed houses of the country.

If you are in the market for a large quantity of melon seeds, be sure and ask us for special prices.

**CULTURE.** The same as for Musk Melon except that they should be planted from 8 to 10 feet apart. One ounce for 30 hills; 3 to 4 pounds to the acre.



TOM WATSON

**TOM WATSON.** In the last few years this melon has become immensely popular. The average size fruit of this variety reaches the size of 24 to 28 inches long and 12 to 14 inches in diameter. It has a dark mottled green rind, thin, but tough enough to stand shipping long distances. For the home or for the market garden or for shipping it is a money-maker for the growers. The seed we offer is of the very best strain.....Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 30c; 1 lb. \$1.00

**HALBERT HONEY.** Originally grown in Texas, it comes to us from the East, where owing to its superb qualities, it has won a reputation in an incredibly short time. The melons are oblong of form, symmetrically rounded at both ends. The skin is smooth, of dark green color, thin and rather brittle; on this account the melons do not stand shipping well. They are, however, the best melons for home use and nearby markets. The flesh is of a beautiful crimson color, of luscious flavor and entirely free from strings. Try Halbert Honey this year.....Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 30c; 1 lb. \$1.00

**ICING OR ICE RIND.** Solid, always of good flavor, rind very thin. Unequaled in good qualities but not a good shipper. There are two types, light skinned and dark skinned, but the light may be a few days earlier. In ordering please state which you prefer.....Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; 1 lb. 80c

**SWEETHEART.** An excellent melon. Vine vigorous, productive, and ripens its fruit early. Fruit is large, oval, very heavy, uniformly mottled light and dark green. Rind thin but very firm. Flesh bright red, firm, solid, very tender, melting and sweet.....Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; 1 lb. 80c

**ALABAMA SWEET.** A long melon with dark skin and red flesh. One of the first to come into market, is good grower and will bear longer than any other varieties. It has light seeds, is of good size though not ungainly, and is a first-class shipper. Raised extensively in Texas, where it brings extra prices.....Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; 1 lb. 80c

**DIXIE.** This new and desirable variety of Southern origin is a cross between Kolb's Gem and the Mountain Sweet, having the tough rind and the long keeping qualities of the former, combined with the great productiveness, high flavor and freedom from stringiness of the latter. Color of the skin dark green, striped with a lighter shade, making it very attractive; rind thin, but tough; flesh bright scarlet, ripens closely to the rind.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; 1 lb. 80c

**GYPSY OR GEORGIA RATTLESNAKE.** The melon is long, smooth, distinctly striped with light, mottled and wavy dark green stripes. Flesh bright scarlet, and very sugary. Notwithstanding its thin rind it will stand shipping well.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; 1 lb. 80c

**COLE'S EARLY.** This is an extra early melon, maturing fully a week or more in advance of any other variety. The melons are oval in form, small in size and handsomely striped with light and dark green. The fruits are of good quality and it is a very desirable variety for localities where the season is short.....Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; 1 lb. 80c

**CUBAN QUEEN.** A large and solid variety; rind very thin and strong; ripens very close to the rind; skin striped with light and dark green. Vines strong, healthy, and of vigorous growth; very heavy cropper, flesh bright red, tender, melting, luscious, crisp and very sugary. It is an excellent keeper, stands shipping well.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; 1 lb. 80c

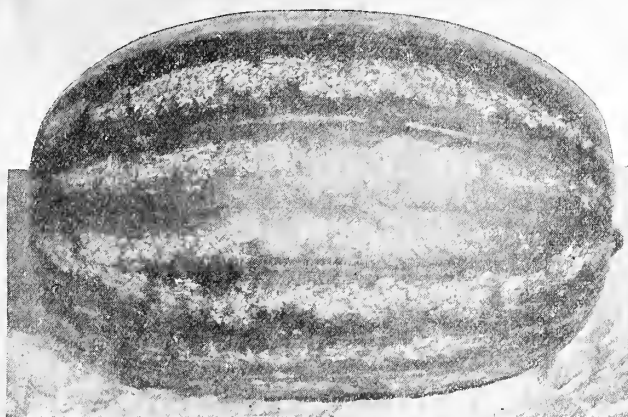
**CITRON.** For preserving. Rind striped and marbled with light green, flesh white and solid.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; 1 lb. 80c

**BLACK SPANISH.** Round, very dark green, with scarlet flesh and black seeds. Has a very thin rind and a rich sugary flavor.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; 1 lb. 80c





**KOLB'S GEM**

**KOLB'S GEM.** The vines are remarkably vigorous and healthy. Fruit of the largest size, round and slightly oval, marked with irregular mottled stripes of dark and very light green. Flesh bright red, extending to within half an inch of the rind; always solid, very firm, a little coarse, but sweet and tender. An excellent keeper and very good for shipping.....Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; lb. 80c

**GRAY MONARCH.** The skin is mottled gray color, shape long, flesh bright crimson, and of sweet, delicious flavor. One of the most productive and popular varieties.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; lb. 80c

**ICEBERG.** Similar to Kolb's Gem, but distinctly darker and the skin, where it rests on the ground, is rich yellow instead of white as in that variety. It has a very hard, firm, rind, and is a good shipper. The flesh is of deep coloring, very tender and sweet.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; lb. 80c

**ICE CREAM.** One of the best Watermelons, solid, always of good flavor, rind very thin.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; lb. 80c

**KENTUCKY WONDER.** In shape it is oblong, skin dark green, marbled in stripes of light green. The flesh is of a beautiful scarlet color, crisp and of rich sugary flavor. It is always firm and never mealy. Attains an average weight of 30 to 40 pounds.....Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; lb. 80c

**"KING AND QUEEN" WINTER WATER-MELON.** Average weight 25 pounds. Spherical in shape, ivory shell, pink center, seeds black. The most luscious, handsome and valuable winter melon in the world. It is very hardy, a good drouth-resister, and does well in any soil which grows melons; never sets an imperfect specimen on its vines, and ripens every melon in less than 120 days. It is a prize-taker everywhere. These melons have been shipped to market as late as December. Ripens on the vines the third week in August and does not change its condition for ninety days if not bruised. The shell is very hard and the melon ripens to within one-eighth of an inch of it.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$ -lb. 75c; lb. \$2.75

**KLECKLEY SWEETS.** This melon is dark green, the flesh is scarlet, ripening close to the skin, the rind being only about one-half inch in thickness. Seeds white, lying close to the rind, leaving a large, solid heart, which does not crack open when ripe. The scarlet flesh is sweet and sugary, and of such texture that it leaves no string of pulp whatever in eating.....Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 30c; lb. \$1.00

**ROCKY FORD.** Fruit is of large size, oblong in shape averaging eighteen to twenty inches in length to ten to twelve inches in diameter. The appearance is handsome, the flesh is a bright scarlet with a flavor which is superbly delicious. Unfortunately the skin is too tender to admit of shipping to any great distance, but its other excellent qualities make it the most desirable for home use and for selling in nearby markets.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 30c; lb. \$1.00

**MOUNTAIN SWEET.** Size large, flavor good, rind thick, dark in color, best for garden culture.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; lb. 80c

**PHINNEY'S EARLY.** A very early variety, medium and uniform size. The skin is smooth, with narrow white mottled and dark green stripes. Flesh light red, or pink, very sweet and delicious.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; lb. 80c

**KANSAS STOCK OR COLORADO PRESERVING MELON.** A boon to the dry land farmer. This melon is grown extensively in Oklahoma, Western Kansas, and Eastern Colorado. It is immensely productive. The melons grow to a large size, some of them weighing as high as 60 to 70 pounds. The flesh is firm and solid with only very few seeds. The melons will keep all winter and can be fed to stock the same as turnips and beets. They grow on most any kind of soil, stand dry seasons very well and seem adapted to most climates.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; lb. 80c

**FLORIDA FAVORITE.** Oblong in shape, growing to a very large size, rind dark with light green stripes, flesh light crimson, crisp and deliciously sweet. One of our best sellers.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 25c; lb. 80c

**If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices**

**Champignonbrut**

Mushrooms can be grown wherever there is a cellar or a close shed, in which an even temperature of from fifty to sixty degrees can be maintained and where a plentiful supply of fresh horse manure for making the beds can be obtained. You can have these delicious fungi, considered one of the finest delicacies, by getting good spawn from us and by following the directions given in our book, "How to Grow Mushrooms," price 10c, postpaid.

**PURE CULTURE SPAWN**

|               |        |
|---------------|--------|
| 1 brick.....  | \$0.45 |
| 2 bricks..... | .80    |
| 4 bricks..... | 1.40   |

With every order for four bricks, at mail prices, we shall be pleased to send the above mentioned book, "How to Grow Mushrooms," free of charge.

By express at purchaser's expense:

|                |        |
|----------------|--------|
| 5 bricks.....  | \$1.30 |
| 10 bricks..... | 2.25   |
| 25 bricks..... | 5.00   |

**MUSHROOMS**

Seta

**MUSHROOMS****Sent**

**SOUTHERN GIANT CURLED.** The leaves are twice the size of the ordinary White Mustard and the flavor is sweet and pungent. Highly esteemed for salads, particularly in the South.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**OSTRICH PLUME.** The leaves are long, ruffled and curled like an ostrich plume, and for this reason the plant is very ornamental. It is especially good as a salad and is equal to spinach for greens.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**CHINESE.** This is a very hardy variety. The leaves are large, thick and somewhat crimped at the edges.

Pkt. 5c; oz. 10c; ¼-lb. 35c; lb. \$1.25

**BLACK OR BROWN.** The common, small seeded variety. More pungent than the White.

Pkt. 5c; oz. 10c; ¼-lb. 25c; lb. 75c

**WHITE ENGLISH.** The leaves are light green, mild and tender when young. The seeds of a light yellow color.

Pkt. 5c; oz. 10c; ¼-lb. 25c; lb. 75c

**MUSTARD**

Mustaza Negra

**NASTURTIUMS**

Kapuzinerkresse

Capuchina

The seeds while young and succulent are pickled and used as capers. The plants are also highly ornamental; the tall variety makes an excellent screen or covering for unsightly places in the garden. Do not sow until the ground is warm.

|                       | Pkt. | Oz. | ¼-lb. |
|-----------------------|------|-----|-------|
| Tall Nasturtium.....  | 5c   | 15c | 40c   |
| Dwarf Nasturtium..... | 5c   | 15c | 45c   |

**OKRA OR GUMBO**

Safran

Quimbombo

One ounce will plant 100 hills.

**CULTURE.** Sow late in the spring, after the ground has become warm, in drills 3 feet apart, and, when the plants are three inches high thin out from 10 to 12 inches. They should be well manured. They also can be started in a hotbed and transplanted afterwards. The young green seed pods of this plant are used in soups or stewed and served like asparagus. The young pods can also be dried for winter use.

**EARLY DWARF PROLIFIC.** Short podded and productive.  
Pkt. 5c; oz. 10c; ¼-lb. 20c; lb. 60c

**TALL.** Grows to a height of five feet. Pods usually eight-ridged and about 6 inches long.....Pkt. 5c; oz. 10c; ¼-lb. 20c; lb. 60c

**WHITE VELVET.** It is very distinct in appearance, and unlike other varieties the pod is not ridged but is perfectly smooth and round. They are of attractive appearance and superior flavor and tenderness. The plants are comparatively dwarf and of compact, branching growth; the pods are of extra large size and produced in great abundance.

Pkt. 5c; oz. 10c ¼-lb. 20c; lb. 60c

**TALL OKRA**



## ONIONS

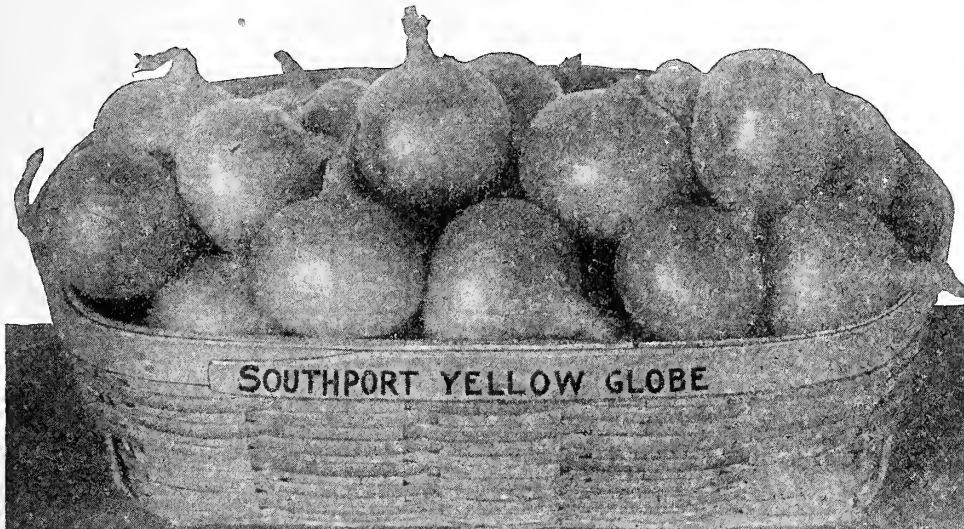
### Zwiebeln

### Cebollos

We make a specialty of onion seed and handle it extensively. We grow a large portion of our seed ourselves and have it grown under our supervision. Our seed is grown from choice selected bulbs and can be relied upon. We make special prices to gardeners and others using seed in large quantities.

**CULTURE.** The onion thrives best in a rather deep, rich, loamy soil, unlike most vegetables, succeeds well when cultivated on the same ground for successive years. As early in the spring as the ground is in working order, commence operations by leveling the ground with a rake; sow thinly in rows a quarter of an inch deep and one foot apart; cover with fine soil and press down with the back of the spade or a light roller. When the young plants are strong enough, thin gradually so that they stand 3 to 4 inches apart. Keep the surface of the ground open and free from weeds by frequent hoeing, taking care not to stir the soil too deeply, or collect it about the growing bulb. When ripe, pull and dry thoroughly before storing. As maggots are the worst enemies of an onion patch, commercial fertilizers are better to use than manures, which originate maggots. One ounce to 100 feet of drill, 4 to 5 pounds to an acre.

## AMERICAN YELLOW VARIETIES



**SOUTHPORT YELLOW GLOBE.** The true Southport Onions are very handsome Globes of superior quality. They are excellent keepers, uniform in size and form, and command higher market prices than any other kind. We highly recommend the Yellow Globe. It ripens a littler earlier than the red, grows to an average size of two to three inches in diameter and has all the good qualities mentioned above.

Pkt. 5c; oz. 45c;  $\frac{1}{4}$ -lb. \$1.50; lb. \$5.00

**SELECT COLORADO GROWN YELLOW GLOBE.** Grown in Larimer county. Acclimated and gives best results. . . . . Pkt. 5c; oz. 35c;  $\frac{1}{4}$ -lb. \$1.25; lb. \$4.00

**PRIZETAKER.** This handsome variety is a splendid type of the celebrated Spanish fancy onions, which are annually imported into the United States from Spain and sold by confectioners and fruiterers in our large cities at from 25 to 50 cents each, and even higher. The onions grown here quite rival the imported ones in great beauty and enormous size. The outside skin is of a greenish yellow color, while the flesh is white, sweet and mild.

Pkt. 5c; oz. 60c;  $\frac{1}{4}$ -lb. \$2.00; lb. \$6.00

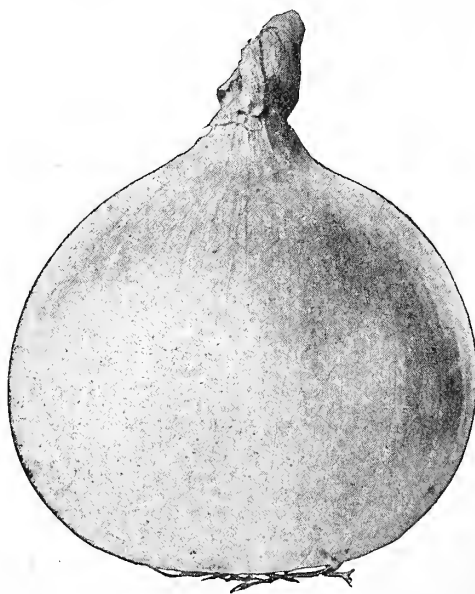
**YELLOW GLOBE DANVERS.** A very excellent variety of globular shape; flesh white and of a mild flavor, skin brownish yellow. It is very productive and a good keeper. . . . . Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.50; lb. \$5.00

**FLAT YELLOW DANVERS.** Same as Globe Danvers, except in shape. . . . Pkt. 5c; oz. 30c;  $\frac{1}{4}$ -lb. \$1 00; lb. \$3.25

**AUSTRALIAN BROWN.** This fine onion is extra large and sure to make a good crop. This onion is of special merit because of its excellent keeping qualities, bulbs remain in excellent condition until almost a year after they are harvested.

The advantage of this is easily seen, especially by the Southern growers. In shape and form they resemble somewhat the round Yellow Danvers, but the former are heavier in every case. The skin is quite thin and bright reddish brown, while the flesh is solid, crisp and mild.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$ -lb. 75c; lb. \$2.50



PRIZETAKER

## ONIONS—Continued

### AMERICAN WHITE VARIETIES

**WHITE SILVERSKIN OR PORTUGAL.** A mild, pleasant flavored variety, admirable for family use; not so good a keeper as the dark-skinned varieties . . . . Pkt. 5c; oz. 60c;  $\frac{1}{4}$ -lb. \$2.00; lb. \$6.00

**SOUTHPORT WHITE GLOBE.** Yield abundantly, producing handsome and uniformly globe-shaped bulbs. The flesh is firm, fine grained and of fine flavor. . Pkt. 5c; oz. 60c,  $\frac{1}{4}$ -lb. \$2.00; lb. \$6.00

**NEW HARDY WINTER ONION.** This variety can be sown in the fall, and will live over winter in the open ground, unprotected and will continue growing in the spring, when it will make handsome bunch onions from two to three weeks earlier than any onion sets. Think of this tremendous advantage! Besides saving you the trouble of planting onion sets this variety will be ready for market while your neighbors are waiting for their sets to get ready.

When fully grown the onions somewhat resemble the White Bermuda in shape, only growing much larger. The keeping quality of this variety is very remarkable; one of our growers showed us perfect specimens from September, which are still in excellent, faultless condition in August when we inspected them. Pkt. 5c; oz. 60c;  $\frac{1}{4}$ -lb. \$2.00

### AMERICAN RED VARIETIES

**SOUTHPORT RED GLOBE.** A large globe-shaped onion, with small neck and rich red color, a splendid keeper and of extra fine quality. It matures a few days later than the Red Wethersfield . . . . Pkt. 5c; oz. 45c;  $\frac{1}{4}$ -lb. \$1.50; lb. \$5.00

**LARGE RED WETHERSFIELD.** The old standard sort; best for main crop. Large, deep red, thick, nearly round, fine grained, of pleasant flavor and a good yielder. It ripens in September and keeps well.

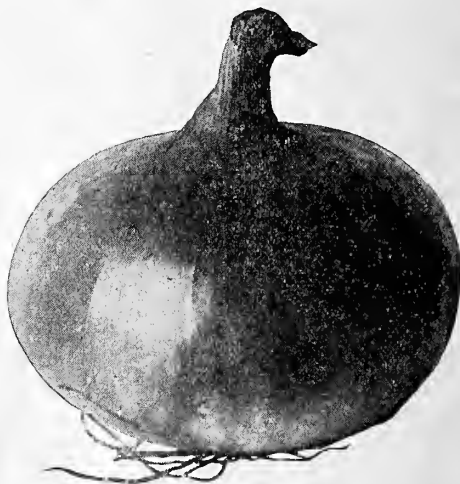
Pkt. 5c; oz. 30c;  $\frac{1}{4}$ -lb. \$1.00; lb. \$3.00

**SELECT COLORADO GROWN RED GLOBE.** Grown for us and under our Supervisor's care from selected bulbs in Larimer county. It is well acclimated and the earliest red globe onion. . . . . Pkt. 5c; oz. 35c;  $\frac{1}{4}$ -lb. \$1.25; lb. \$4.00

### ITALIAN VARIETIES

**LARGE WHITE LISBON.** Globular-shaped, grows to a large size, pure white and very mild. As it is late to mature, should be sowed early in the spring. It is used very much by our market gardeners for sowing in August, wintered over and bunched up in the early spring for green onions.

Pkt. 5c; oz. 60c;  $\frac{1}{4}$  lb. \$2.00; lb. \$6.00



### Gigantic Gibraltar Onion

This comparatively new and little known variety is particularly adapted for growing in warm climates. In appearance it is very similar to the well-known "Prizetaker" Onion; will grow larger under favorable conditions. The handsome globular shaped bulbs have a light straw colored skin, while the flesh is white and very mild. The ripe onions are excellent keepers and surpass, in this respect, most of the other varieties, if properly handled. Experiments have shown that of onions harvested in August, fully 95 per cent were in fine marketable condition in January, free from split and rotting.

These onions are excellent for marketing purposes as well as home use. The growing crop withstands dry weather to a remarkable degree. Most highly recommended. . . . . Pkt. 10c; oz. 75c;  $\frac{1}{4}$ -lb. \$2.50.

**GIANT ITALIAN TRIPOLI.** A large, beautiful pure white onion of mild, excellent flavor. Will produce a somewhat larger onion from seed than our White Portugal, but to attain their full size the plant should be started very early in a hot bed and set out in rich soil. . . . . Pkt. 5c; oz. 75c;  $\frac{1}{4}$ -lb. \$2.50.

**EARLY WHITE QUEEN.** Succeeds well everywhere. The bulbs are small, flat, beautifully white and of excellent flavor, but the principal recommendation is the marvelous rapidity of their growth.

It will produce ripe onions in 100 to 110 days from date of sowing. Both the White Queen and the Extra Early Barletta are highly recommended for pickling purposes. . . . Pkt. 5c; oz. 75c;  $\frac{1}{4}$ -lb. \$2.50.

**MAMMOTH SILVER KING.** We have imported seed of this truly mammoth variety. The onions are of attractive shape with silvery white

skin and flesh of a most agreeable flavor. It reaches a larger size than any of the flat white varieties.

Pkt. 5c; oz. 75c;  $\frac{1}{4}$ -lb. \$2.50.

**EL PASO.** A variety from Mexico. It grows there to a diameter of 6 inches, weighing two-thirds of a pound, flavored very mildly. Our seed of this variety comes direct from Mexico. Skin of the onion generally white, but sometimes mixed with red and yellow. . . . . Pkt. 5c; oz. 75c;  $\frac{1}{4}$ -lb. \$2.50.

**EXTRA EARLY BARLETTA.** It is fully two or three weeks earlier than the Early White Queen, which heretofore has been the earliest variety under cultivation. The onions are of a pure paper-white color, very mild and delicate in flavor, from one inch to one and one-half inch in diameter and three-fourths of an inch in thickness.

Pkt. 5c; oz. 75c;  $\frac{1}{4}$ -lb. \$2.50.



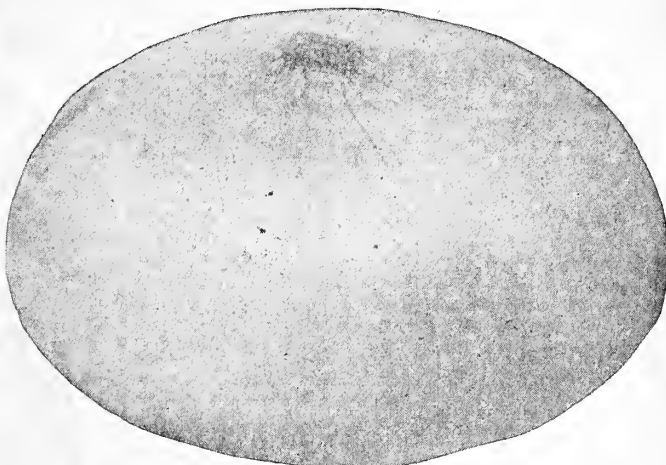
## ONIONS—Continued

### BERMUDA ONION SEED IMPORTED FROM TENERIFFE

In growing onions the quality of the seed is of greatest importance. Our seed is grown by the best grower in Teneriffe and is the best to be had.

**WHITE BERMUDA.** This valuable onion is especially adapted to the Southern States and is the most profitable of all varieties of onions for the grower. Ease of cultivation, large size and mildness of flavor make it the most valuable of this type. The White Bermuda is a selection from the original Red Bermuda, and preferred to all others by growers in the South. We offer seeds obtained direct from the Isle of Teneriffe, one of the Canary Isles, the home of the Bermuda onion.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$ -lb. 75c; lb. \$2.50



**CRYSTAL WHITE WAX (Teneriffe Grown).** This is a large, pure white, flat onion. In the South, especially Texas, during the last few years, it has become so popular that there has not been enough seed to meet the demand. It grows to good size early and is the mildest and sweetest of all onions. It is the finest slicing onion for the home garden. True seed very scarce. Pkt. 5c; oz. 30c;  $\frac{1}{4}$ -lb. \$1.00, lb. \$3.50

## ONION SETS—Steckzwiebeln

For prices per bushel please see our Pink List. Prices are subject to market fluctuations. We are always pleased to make special quotations on large lots. Thirty-two pounds constitute a bushel, except the Top or Button Sets which are twenty-eight pounds to the bushel.

A pound of Onion Sets is equal to about a quart. When wanted by mail add 5 cents for one pound and regular parcels post rates for larger quantities.

**RED BOTTOM.** Produced by sowing thickly the seed of the large Red Wethersfield variety, and thinning out. They mature under this method when about half an inch through. They are used precisely as top onions and set them out in the spring instead of sowing seed.

Lb. 20c;  $\frac{1}{4}$ -bu. \$1.25

**YELLOW BOTTOM.** Identical with the preceding except in color. They are used in the same manner and are produced from the seeds of the Yellow Danvers variety.

Lb. 20c;  $\frac{1}{4}$ -bu. \$1.25

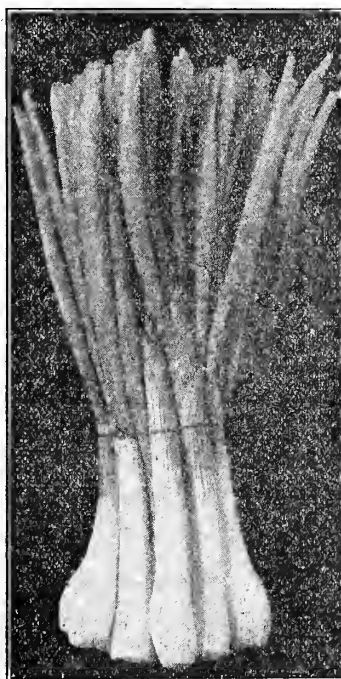
**WHITE BOTTOM.** The seed of the White Silver Skin or White Portugal variety is used to produce white sets. They do not keep as well as the red or yellow but produce beautiful white onions early in the season.

Lb. 20c;  $\frac{1}{4}$ -bu. \$1.50

**RED TOP OR BUTTON.** Produce no seed but instead a small number of bulbs or onions about the size of acorns on top of the stock. These little bulbs are used instead of seed, and will produce a large onion, maturing much earlier than from the seed.

The large onion produces the top onion and the little top onion produces the larger onion.

Lb. 25c;  $\frac{1}{4}$ -bu. \$1.75



GROWN FROM SETS

**WINTER TOP.** These sets should be planted in the fall and make fine young onions for bunching very early in the spring. They are good for bunch onions only as they make no bulbs. When once established they come up year after year. The sets grow on top of the stalks.

For fall planting.

**POTATO ONION.** Produces a quantity of young bulbs on parent root, which should be planted early in the spring in rows 18 inches apart in the row, and covered one inch deep. They should be earthed up like potatoes as they continue to grow.

Lb. 20c;  $\frac{1}{4}$ -bu. \$1.50

**WHITE MULTIPLIER.** These are of a pure silvery white color, enormously productive, frequently producing as many as 20 bulbs in a cluster from a single bulb plant. It is of excellent quality and size for bunching green, or can be ripened for use as pickling onions; for this latter purpose can be grown much more economically than from the seed. Their most important quality is extreme earliness, being ready for market from 3 to 4 weeks ahead of other onion sets. Lb. 20c;  $\frac{1}{4}$ -bu. \$1.50

**SHALLOTS.** Used extensively in Germany. Valuable for an early crop. They grow in clusters; very productive and of a mild and sweet flavor.

Lb. 20c;  $\frac{1}{4}$ -bu. \$1.50

**Petersille****PARSLEY****Perejil**

**CULTURE.** Parsley succeeds best in rich, mellow soil. As the seeds germinate very slowly, 3 or 4 weeks elapse sometimes before it makes its appearance. It should be sown early in the spring, previously soaking the seeds for a few hours in tepid water. Sow thickly in rows a foot apart and half an inch deep. One ounce to 150 feet of drill.

**DWARF PERFECTION.** This new Parsley well deserves the name of perfection. It combines a highly decorative appearance with a fine delicate flavor and is very desirable for planting as a border around flower beds.

The plant, if properly transplanted and given space for development will form a symmetrical half-globe shaped bush from 6 to 8 inches high and about 10 inches across. The color is a delightful green and the leaves are attractively curled.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**CHAMPION MOSS CURLED.** The green leaves are finely cut and curled, and of dark green color. Extra fine for garnishing and culinary purposes.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**HAMBURG TURNIP-ROOTED OR GERMAN PARSLEY.** The root resembles a small parsnip and is the edible part of this sort; extensively used for flavoring soups.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**NEW EMERALD.** The plants are dwarf and of compact growth. The leaves are of a handsome bright green color, and very finely crimped and curled. It is very ornamental and commands high prices in Western markets.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**PLAIN LEAVED.** This is the hardiest variety, foliage very dark green, with plain leaves, having a strong parsley flavor and much preferred in French cooking.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**Pastinake****PARSNIPS****Chirivia**

**CULTURE.** They do the best in deep rich sandy soil, but will make good roots on any soil which is deep and mellow and moderately rich. As the seed is slow to germinate, it should be sown as early as possible; cover ½-inch deep, and press the soil firmly over the seed; give frequent cultivation, and thin the plants 6 to 8 to the foot. As they are improved by frost, a part of the crop should be left in the ground for spring use. One ounce will sow 150 feet of drill, 5 pounds to an acre.

**HOLLOW CROWNED OR SUGAR**

**HOLLOW-CROWNED OR SUGAR.** The best for table use; a vegetable of merit, easily raised and of great productiveness.

Pkt. 5c; oz. 25c; ¼-lb. 75c; lb. \$2.50

**IMPROVED GUERNSEY.** Roots comparatively short, ending somewhat abruptly with a small tap root; grows with a cavity on the top or crown of the root.

Pkt. 5c; oz. 25c; ¼-lb. 75c; lb. \$2.50

**PEAS****Arvejas****Erbesen**

**Postage on Peas is Extra.** Five cents for one pound and regular parcels post rates for larger quantities.

**CULTURE.** Peas can be grown in every garden, but for the earliest varieties a light, warm, moderate rich soil is most suitable. The smooth kinds can be sown as soon as the ground can be worked, but the wrinkled varieties should not be planted till it is warmer, or they will rot. Sow in single or double rows from 1½ to 3 feet apart, dropping a pea every inch and covering from 2 to 3 inches deep. For a succession sow every ten days up to July. Sow one quart to 50 feet drilled; 1½ to 2 bushels to an acre.

**GRADUS OR PROSPERITY.** This remarkable pea is not only large and of the best quality, but it is also nearly as early as the small, round, extra early sorts. It is hardy and may be planted as soon as the ground is fit to work in the spring, along with smooth peas.

The vine grows to a height of about 30 inches. The pods are of a light green color and measure 4 inches or more in length, being as large as Telephone and equally as well-filled with luscious peas—8 to 10 in a pod. The peas are of first-class table quality and retain their color and attractive appearance after cooking. It is a grand pea in all respects.

Large Pkt. 10c; lb. 35c; 2 lbs. 65c.

**ALASKA.** A variety of remarkable earliness. It is a good yielder and produces pods of good size and dark green color, which are well filled with round, smooth peas of splendid flavor. The color of the dried pea is green. It ripens evenly; one picking will nearly clean off the crop. Advise market gardeners to give this variety a trial. . . . . Pkt. 5c; lb. 35c; 2 lbs. 65c.

**EXTRA EARLY GRADUS**



## PEAS—Continued

### EARLY SMOOTH VARIETIES

**THE PIONEER.** A new extra early variety. For illustration and description, see Novelties.

**FIRST AND BEST.** This is a reliable early cropper of the hardy smooth seed variety. Not quite as early as Alaska. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c

### EARLY WRINKLED VARIETIES

**NOTT'S EXCELSIOR.** Robust and vigorous in growth, very prolific, producing a profusion of long handsome pods, closely packed with large peas of fine flavor. An improvement on American Wonder, being more vigorous and prolific with large pods with more peas than either the Wonder or Premium Gem. Seeds green, wrinkled, square at the ends like American Wonder. Height 12 inches. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c

**PREMIUM GEM.** An improvement on the Little Gem, being larger and more productive. Early in maturing, very luscious in flavor and highly recommended. Try it. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c

**AMERICAN WONDER.** The vine grows 8 to 10 inches high and is very prolific in pods of striking form and size. In maturing it is among the earliest, ripening in about 50 days from germination. It is among the first of the early green wrinkled sorts. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c

**HORSFORD'S MARKET GARDEN.** Very popular with the canners on account of its heavy yields. The vines are from 2 to 2½ feet tall and very uniform. Pods are of medium size but remarkably well filled with peas of fine flavor. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c

### MAIN CROP VARIETIES

**TELEPHONE.** This variety is one of the finest branching, tall, wrinkled marrows yet introduced. It bears splendid peas of the finest quality and excellent, sugary flavor; vine very strong, averaging 18 to 20 pods per plant; the pods are of a large size and closely packed with from 8 to 10 large delicious peas. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c

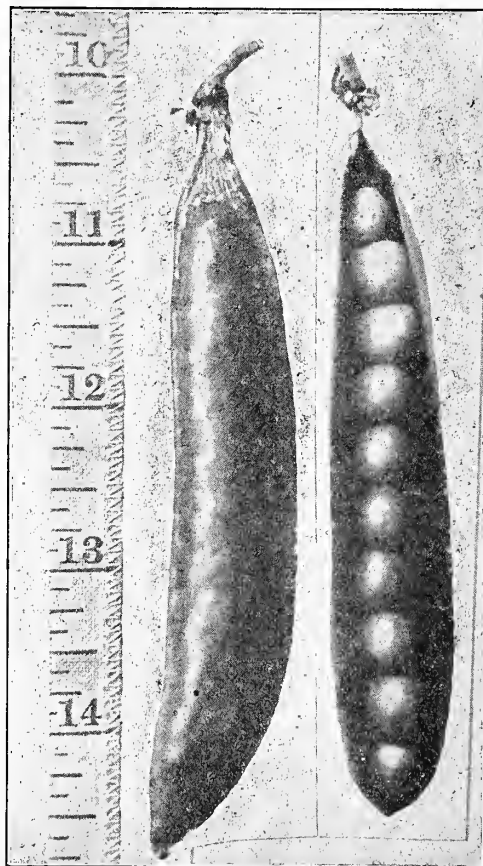
**DWARF CHAMPION.** This is a dwarf-growing strain of the popular Champion of England, which for many years has been considered the Standard Pea for main crop and summer use. The stocky vines grow only two feet high and set large well-filled pods very freely. In warm soils and locations this dwarf type will give better results than the tall strain. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c

**BLISS EVERBEARING.** The vines attain a height of 2½ to 3 feet; foliage large; the pods will average 3 to 4 inches in length, each pod producing 6 to 8 wrinkled peas. These peas are very large, being half an inch and over in diameter, and in quality unsurpassed. For a continuance of bearing this variety is unexcelled. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c

**CHAMPION OF ENGLAND.** A most popular and extremely productive second early pea, which has been valued for many years as the standard variety for summer use. Vines are of strong growth and very productive of large, well-filled pods. The flavor of the peas is delicious. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c

**IMPROVED STRATAGEM.** Seeds green, wrinkled; middle crop; one of the best peas ever sent out; grows vigorously and showing vine of branching habits; heavily laden with immense pods containing 10 to 12 peas of large size; height 1½ feet. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c

**YORKSHIRE HERO.** Maturing after the Premium Gem, but the vines are of a much stronger habit. It is hardy, productive, and of superior flavor. . . . . Pkt. 5c; 1 lb. 35c; 2 lbs. 65c



TELEPHONE

## PEAS—Continued

### MARROWFATS AND SUGAR PEAS

**BLACKEYE MARROWFAT.** A very productive variety of strong growth, requiring much space. If grown in the garden brushwood or poles are necessary. Matures in 80 days after germination.  
Pkt. 5c; 1 lb. 35c; 2 lbs. 65c.

**WHITE MARROWFAT.** Very similar to the Blackeye Marrowfat, except that it does not have black eyes.  
Pkt. 5c; 1 lb. 35c; 2 lbs. 65c.

**GRAY SUGAR.** (Edible pods.) A splendid variety with edible pods. It grows medium high, and is remarkable for its prolific character. The pods are flat and crooked, and contain 5 to 6 peas.  
Pkt. 5c; 1 lb. 35c; 2 lbs. 65c.

**Note.** If you are in need of peas in large quantities write us. We will make prices that will please you.

## PEPPER

### Pfeffer

**CULTURE.** Peppers should be started in a hotbed in February or March, and not planted outside until the ground is warm, and there is no more danger of frost. Set the plants in rows 2 feet apart and 18 inches in the row. Hoe often and keep the weeds down. One ounce produces about 1,000 plants.

Some new peppers listed under Novelties.

### Pimiento

**GOLDEN DAWN.** It resembles the popular Bell Pepper in shape. It is of a most beautiful golden yellow color, and of a very handsome appearance, both in growth and upon the table.  
Pkt. 5c; oz. 60c.

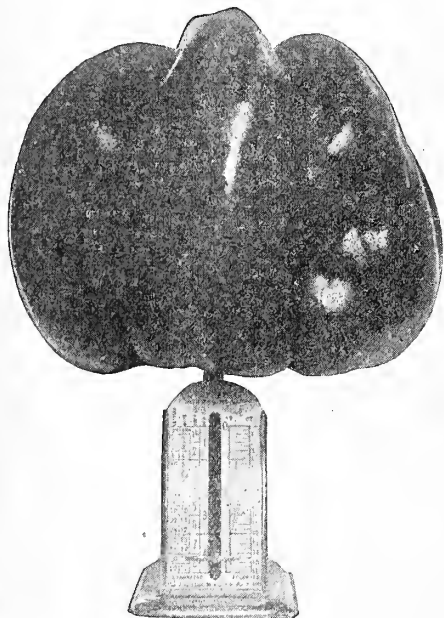
**LONG RED CAYENNE.** This fruit is a brilliant coral red, conical, and from 2 to 3 inches long and from  $\frac{1}{4}$  to 1-inch thick. Very pungent.  
Pkt. 5c; oz. 60c.

**CELESTIAL.** This pepper has two uses, being both ornamental and edible. The profusely bearing plants produce fruits of constantly changing color. When young they are a creamy yellow and as they mature they become a vivid scarlet. The bushes are an ornament to any garden and the peppers are fine for pickling.  
Pkt. 5c; oz. 60c.

**SMALL RED CHILLI.** Fruit about 2 inches long and 2-5 of an inch in diameter; red and very hot.  
Pkt. 5c; oz. 60c.

**LARGE RED CHILLI.** This pepper is slightly larger than the preceding, being 3 inches long and 1-inch thick. The fruit is bright red, very hot and fiery, and ripens early. It is used for making the famous Mexican chilli.  
Pkt. 5c; oz. 60c.

**LARGE BELL OR BULL NOSE.** A very large pepper of square shape, mild, thick and hard. Suitable for stuffing and for mixing pickles. It is less pungent than other sorts, and notwithstanding its size, is one of the earliest.  
Pkt. 5c; oz. 60c.



**CHINESE GIANT.** One of the very best and largest mango Peppers ever introduced. Its mammoth size, splendid shape, beautifully rich, glossy-red flesh and mild flavor, all lead us to recommend it very highly. Its strong bushy plants are heavily loaded with large fruits, which are produced throughout the season. A very unusual variety worthy of the highest recommendation.  
Pkt. 10c;  $\frac{1}{4}$ -oz. 25c;  $\frac{1}{2}$ -oz. 40c; oz. 75c.

**NEAPOLITAN, LARGE EARLY.** First brought to this country by a company of Italian market gardeners, this pepper has quickly pushed its way to the front, and is now on a fair way to become the principal shipping pepper of this country. It combines extreme earliness with a most prolific character, and is now the earliest large fruited pepper in cultivation. The first fruits are ready for market the last week in June.  
Pkt. 10c;  $\frac{1}{4}$ -oz. 20c;  $\frac{1}{2}$ -oz. 35c; oz. 60c.

**SWEET SPANISH.** An excellent rather late variety. Very mild, thin-skinned and fruit rather long.  
Pkt. 5c; oz. 60c.

**PROCOPP'S GIANT OR ELEPHANT'S TRUNK.** This variety produces large, long, thick-fleshed peppers of a brilliant scarlet color. The flesh is fully  $\frac{1}{2}$ -inch thick and of a slightly pungent flavor.  
Pkt. 5c; oz. 60c.



**RUBY KING.** Fruit of a bright red color, 6 to 7 inches long by about 4 inches through. They are remarkably pleasant and mild in flavor and can be eaten sliced with vinegar, like tomatoes. The best for making mangoes.  
Pkt. 5c; oz. 60c.



## POTATOES

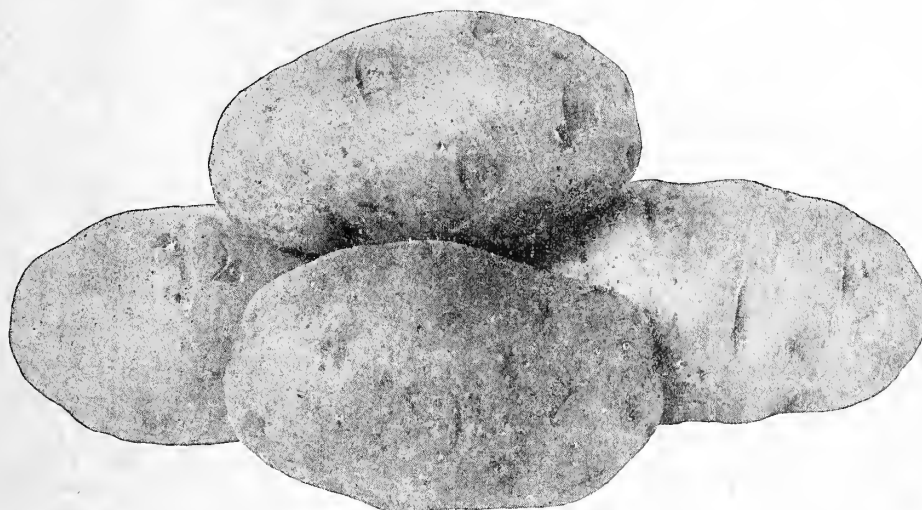
### Kartoffeln

### Patates

Standard weights of Irish Potatoes 60 pounds per bushel. Please state in case stock of variety ordered is exhausted if we shall return the money or substitute an equal value of some near variety. We make special prices on large lots. Write us.

Our potatoes are grown by experienced men, who make a specialty of potatoes for seed. You can depend on our stock. It is usually cheaper to have potatoes shipped in bags on account of both the cost of the barrel and the greater weight. We will ship potatoes whenever directed, or use our best judgment but in no case will we be responsible for delay or damage in transit.

**CULTURE.** Potatoes can be grown in any soil provided it is well drained, but if grown on sandy, rich soil they will be of better quality than if planted on clay soil. The sets should be planted from 3 to 4 inches deep, according to the time of planting, in rows 3 feet apart and 16 to 18 inches in the rows. If planted  $1\frac{1}{2}$  feet by 3 feet there will be about 9,700 hills in one acre, and it will take between 600 and 700 pounds, according to the size of the sets to plant it. At 3 by 3 feet one-half the quantity is sufficient.



EARLY OHIO

**MAMMOTH PEARL.** A late variety; skin leathery white, flesh very white and mealy; eyes shallow; shape oval and somewhat flattened; a good keeper and the heaviest yielder for Colorado, 200 to 300 bushels per acre.

**ROSE SEEDLINGS.** This is the potato that is famous about Greeley, and is now known in nearly all potato markets as "Colorado Red," "Greeley Seedling," etc. It is our standard for general crop. Our stock is selected for purity.

**TRIUMPH.** Red River Stock. This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose. Tubers are medium size, round and uniform in shape, with but few small ones; eyes slightly depressed; color a beautiful light red. Its beauty, productiveness and good qualities in general make it one of the best early market varieties, especially for the South, from whence it is shipped to Northern markets, bringing highest prices on account of its appearance.

**IRISH COBBLER.** One of the most popular of the early varieties. Its excellent quality, together with its cream-white color, makes it fine for the best trade. It is a vigorous grower, a good keeper and ripens uniformly.

**EARLY SIX WEEKS.** Earliest potato in existence and most valuable for market gardeners. A great beauty. Perfect table potato and a wonderful yielder. Ready for market in six weeks, matures in 72 days, two weeks ahead of any other variety, and has yielded as high as 400 bushels to the acre.

**NETTED BURBANK.** Called sometimes Netted Gem. A late variety with skin brownish and leathery; flesh white, eyes shallow, shape long and smooth; cook mealy and dry. Good yielder and good keeper.

**DOWNING.** One of the best for main crop; is about 10 days later than Early White Ohio. It is a white potato, kidney shaped, smooth skin, with shallow eyes, and a heavy yielder of medium to large tubers. Vines are spreading and hills require to be planted further apart than other varieties.

**PEACHBLOW.** A late variety; skin pink spotted to red, flesh yellowish white, eyes shallow and few; shape large and round. Fair yielder and a good keeper.

**EARLY OHIO.** Northern grown. Red River stock. Extra early, and one of the best, if not the best, for the Western states. It is fit for table use before fully ripe, and can be shipped earlier than any other variety.

**EARLY OHIO.** Kaw Valley stock.

**BURBANK.** A large, long, white potato of excellent quality. Fine for main crop and a splendid keeper. One of the first introductions of the famous Wizard.

**RURAL NEW YORKER No. 2.** The standard white market potato. It is very large, usually smooth, oblong, inclining to round, and rather flattened. Skin and flesh white; quality excellent; season intermediate. Tubers of great uniformity in size; almost every one marketable.

FOR PRICES PLEASE SEE OUR PINK LIST

If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices

## PUMPKINS

### Kurbisse

### Calabaza

**CULTURE.** Pumpkins require the same general culture as melons and squashes. As the plants require much space and as they readily mix with cucumbers, melons, etc., they are not very suitable for the home garden. The common practice, and a good one, is to plant the seeds in the cornfield, either in hills or between the rows, after the last cultivation. One ounce of seed to thirty hills; 4 pounds to an acre.



CONNECTICUT FIELD PUMPKIN

**CONNECTICUT FIELD OR BIG TOM.** The well-known old Connecticut variety. Grows well among corn; varies in shape. Excellent for feeding dairy stock. . . . Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**KENTUCKY FIELD.** A large variety, producing pumpkins in abundance. Has thick meat of fine quality. Very suitable for canner's use.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

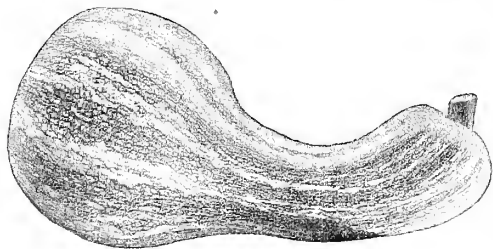
**MAMMOTH TOURS.** A French variety which grows to an immense size, often weighing over 100 pounds. . . . Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

**KING OF MAMMOTH OR GENUINE MAMMOTH.** The flesh and skin are of a bright golden yellow. Flesh fine grained and of excellent quality. Notwithstanding its enormous size, it is one of the very best pie pumpkins ever grown, and a splendid keeper. This enormous variety has been grown to weigh over 200 pounds.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

**TENNESSEE SWEET POTATO.** A good variety for making pies and other cooking purposes. It is of medium size, of a creamy white color, and has an excellent flavor; good keeper.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50



**CUSHAW OR CROOKNECK.** A French variety liked by many. Has yellow flesh, solid and sweet.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

**LARGE CHEESE.** A popular variety in the South. Fruit flattened, the diameter being 2 or 3 times more than the length. Skin mottled light green and yellow, changing to rich cream color as it matures; flesh tender and of excellent quality.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00



SMALL SUGAR

**SMALL SUGAR.** Smaller than the field pumpkin, but finer grained, sweeter, and very prolific; first rate for the table or stock. The best variety for making pies. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

**JAPANESE PIE.** The flesh is very thick, nearly solid; the seed cavity being very small in one end of the pumpkin; fine grained, dry and sweet, having much the taste and appearance of sweet potatoes. They ripen early, keep well, and are fine for home use. The seeds have peculiar marks resembling characters of the Chinese alphabet.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

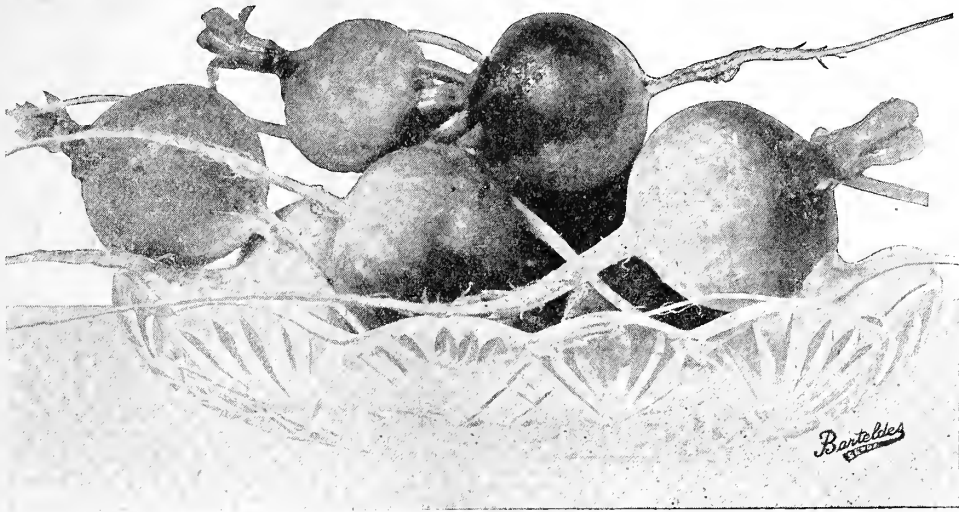
**If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices**



## RADISHES

Radleschen

Rabanitos



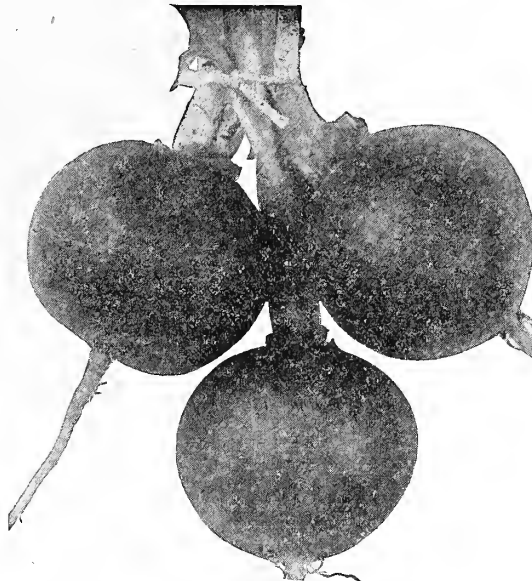
**CULTURE.** Sow as early in the spring as the ground can be worked, and every two weeks throughout the season for a succession of crops. A warm sandy loam, made rich and light by some good, strong manure, which is thoroughly rotted will be most likely to afford them free of worms and brittle. During summer months use the summer or winter varieties, as the early kind get pithy. Winter Radishes can be wintered over as easily as any root crop and furnish an acceptable relish. One ounce to 100 feet of drill; 10 pounds to an acre.

### EARLY ROUND VARIETIES



#### CRIMSON GIANT GLOBE.

This new radish is an entirely new type, and differs radically from all the varieties hitherto in cultivation, in so far that its roots attain more than double the size of those of other forcing varieties without getting pithy or hollow. This giant radish develops roots 6 to 8 inches in circumference and over an ounce in weight, their pure white flesh remaining firm and crisp, and of mildest flavor. Notwithstanding the extraordinary size and weight of its bulbs, it is second to none as a forcing variety. It's equally well adapted to outside culture. The seeds should be sown very thinly to permit full development of the roots. Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75.



CRIMSON GIANT GLOBE

#### NON-PLUS ULTRA.

By far the smallest-topped and earliest forcing radish in cultivation. Roots small, round, deep red, with very crisp, tender white flesh. This is the very best variety for forcing, as it will mature in 13 to 21 days and the tops are so small that a large number can be grown in a single bed. Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75

**ROSY GEM.** One of the earliest varieties in cultivation. It is of perfectly globular shape, of rich color, being deep scarlet on top, blending to pure white at the bottom. The radishes are exceedingly tender and crisp and delicious. Desirable for growing under glass as well as in the open ground. Pkt. 5c; oz. 15c ¼-lb. 50c; lb. \$1.75

**EARLY ERFURT DARK, ROUND RED OR DEEP SCARLET TURNIP.** This is a splendid strain of the small extra early, round radish; it is ready for use in 13 to 20 days after sowing. The radishes are very attractive, tender and mild flavor. The tops are small, hence it is an excellent variety for growing under glass. Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75.

**EARLY SCARLET TURNIP.** A small, sound, red turnip-shaped radish, with a small top, and of very quick growth. Pkt. 5c; oz. 15c ¼-lb. 50c; lb. \$1.75

**TURNIP.** Both skin and flesh are white. It is a few days later than the scarlet turnip, and will bear heat, without becoming pithy. Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75

**SCARLET TURNIP, WHITE-TIPPED.** A beautiful variety, deep scarlet with white tip. It is very ornamental for table use, and is becoming very popular as a market variety. It is of the same size and shape as the scarlet turnip variety. Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75

If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices

## RADISHES—Continued



**EARLY SCARLET GLOBE.** This variety makes roots fit to pull as early as Non-Plus-Ultra, but they are much larger when full size, and for this reason are very popular in some markets. Roots round or slightly oval-shaped; color rich, deep scarlet, flesh white and tender.....Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75

### OLIVE SHAPED VARIETIES

**FRENCH BREAKFAST.** A medium-sized radish with small top. Quick growth and very crisp and tender.....Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75

**EARLY SCARLET OLIVE-SHAPED.** Very early and handsome. Lively rose color, oblong-shaped, top very small.....Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75

**CINCINNATI MARKET.** An improved Long Scarlet Short Top, the roots being more perfect in shape, and excellent for forcing

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75



EARLY SCARLET OLIVE-SHAPED

### SUMMER VARIETIES

All of the following varieties attain a larger size than do any of the earlier radishes. While not ready for the market quite so early they remain in fine condition longer without becoming pithy.

**CHARTIERS OR SHEPHERD.** Long Scarlet tipped with white.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75

**GIANT WHITE STUTTGART.** Very large, excellent quality.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75

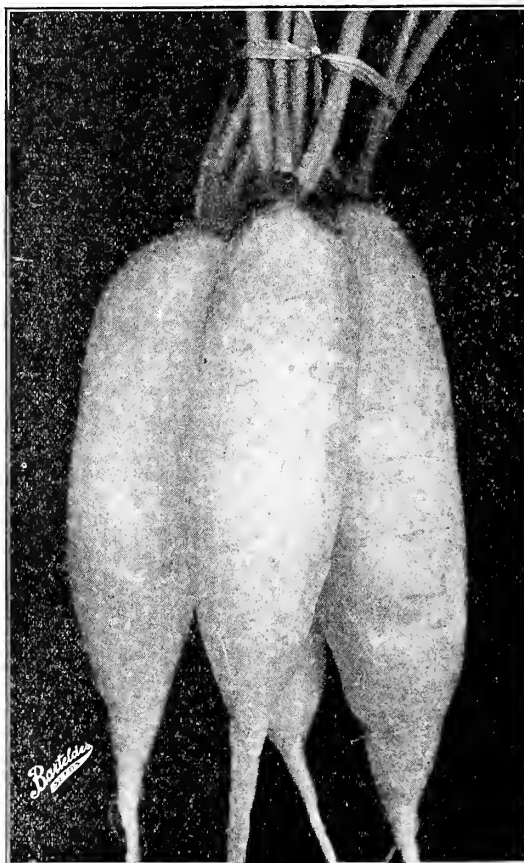
**WHITE STRASBURG.** Will stand summer heat admirably.....Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75

**LONG WHITE VIENNA OR LADY FINGER.** A rapid grower of fine shape.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75

**YELLOW SUMMER TURNIP.** A general favorite with market gardeners.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$ -lb. 50c; lb. \$1.75



WHITE STRASBURG

If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices



## RADISHES—Continued

### LONG VARIETIES



**BARTELDES GLASS RADISH.** The radish comes from the same gardener in Denver who originated the Denver Market Lettuce, and is a fine acquisition. It is a long radish of light pink color, white-tipped, of uniform size. The flesh is transparent white, always crisp and brittle, even if grown to a large size, and mild flavored. It was named "Glass Radish" on account of the fine transparency of the flesh.

Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75

**HALF LONG DEEP SCARLET.** The roots of this hardy and desirable variety are of a very brilliant, deep red rich color, and half-long, with somewhat tapering points, the flesh is very white, crisp and tender, and holds its juiciness very well not becoming pithy until overgrown.

Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75

**EARLY SCARLET SHORT TOP.** Is undoubtedly the best standard variety for private garden and market use. It grows 6 or 7 inches long, half out of the ground. It is very brittle and crisp and of quick growth. Color, bright scarlet, small top, tapers regularly to the root, and is uniformly straight and smooth.

Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75

**WHITE ICICLE.** (Eiszapfen.) An entirely distinct long slender, pure white variety. It is without doubt the earliest and finest long white Radish in existence. Ready for use fully as early as Long Scarlet Top, with less foliage, rendering it most desirable for forcing. In the open ground the roots continue brittle, crisp and mild until they are fully as large as those of the Long Bright Scarlet. The Icicle is perhaps superior to the finest long red ones. Roots 4 inches in length and half an inch in diameter; they retain their crispness and fresh, mild flavor until fully 6 inches long and an inch in diameter.

Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75

**LONG BRIGHT SCARLET OR CARDINAL.** Extra early, the roots being fit for use about 25 days after sowing; very bright color; quite unique; being the most fiery scarlet in any kind of radish. It is very slightly tipped with white, and the flesh is crisp and tender.

Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75

**WOOD'S EARLY FAME.** Of the "Long Scarlet" type, not quite so long and a little thicker, the brilliant scarlet color, mild, brittle, of fine flavor, and the most suitable for forcing and the early market garden.

Pkt. 5c; oz. 15c; ¼-lb. 50c; lb. \$1.75

### WINTER RADISHES

**SAKURAJIMA**—See Novelties.

These can be divided into two distinct classes: The European varieties and the Chinese, or California varieties. The former have firm, hard, but very fine grained flesh, while the latter produces radishes of an extra large size with white, crisp and juicy flesh.

The Long Black Spanish and the Round Black Spanish are the favorite German Winter "Rettige."

The White Chinese is the finest of all extra large white radishes. Nearly the whole of the splendid root grows above the surface, which makes pulling them a pleasure. The flesh is always crisp and juicy.

The China Rose-colored, and the California Mammoth White are quite similar to the above, but not quite so large.



EARLY SCARLET  
SHORT TOP



LONG  
BLACK SPANISH

| Varieties   | Pkt. | Oz. | ¼-lb. | Lb.    |
|---|------|-----|-------|--------|
| Long Black Spanish. An excellent keeper.....                                | 5c   | 15c | 50c   | \$1.75 |
| Round Black Spanish. Fine for winter use.....                               | 5c   | 15c | 50c   | 1.75   |
| White Chinese or Celestial. Cultivated extensively by market gardeners..... | 5c   | 15c | 50c   | 1.75   |
| China Rose Colored. Not as strong as the "Spanish" Radishes.....            | 5c   | 15c | 50c   | 1.75   |
| California Mammoth White. Grows from 8 to 12 inches long.....               | 5c   | 15c | 50c   | 1.75   |

## RHUBARB OR PIE PLANT

### Rhobarbar

### Rulbarbo

**CULTURE.** Rhubarb succeeds best in deep, somewhat retentive soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep and thin out the plants to 12 inches apart. The following spring transplant in place; set the plants from 4 to 5 feet each way. One ounce produces from 400 to 500 plants.

Book, "Rhubarb Culture," by J. E. Morse, price 50c.

**LINNAEUS.** Early, large and tender. . Pkt. 5c; oz. 10c; ¼-lb. 35c; lb. \$1.00

**VICTORIA.** The most popular variety, later than the preceding.

Pkt. 5c; oz. 10c; ¼-lb. 35c; lb. \$1.00

**AUSTRALIAN CRIMSON WINTER.** Luther Burbank's introduction. Can be grown indoors in winter time. . . . . Pkt. 10c; oz. 50c; ¼-lb. \$1.50

## RHUBARB ROOTS

**LINNAEUS and VICTORIA.** 2 for 25c; 5 for 50c; 12 for \$1.00, charges prepaid. If by freight or express not prepaid 75c per dozen; \$5.00 per 100.



## SALSIFY OR OYSTER PLANT

### Haferwurz

### Salsifi

**CULTURE.** The Oyster plant succeeds best in some light, well enriched soil which previous to sowing the seeds should be stirred to the depth of 18 inches. Sow early in the spring in drills 15 inches apart; cover the seeds with fine soil 1 inch deep. One for 60 feet of drill; 7 pounds to one acre.

**MAMMOTH SANDWICH ISLAND.** This splendid variety grows to fully double the size of the old sort; is of superior quality and delicate flavor. The Oyster Plant is one of the most nutritious and delicious vegetables, and should be more generally cultivated for winter use when the supply of really good vegetables is limited.

No Market Gardener should fail to grow it. It is a paying proposition.

Pkt. 5c; oz. 20c; ¼-lb. 75c; lb. \$2.50

## SPINACH

### Spnat

### Esplnach

**CULTURE.** Requiring but little culture it is one of the most easily managed of all vegetables. The main crop is sown in September, and if in exposed places it is sometimes covered with straw during the winter, which prevents it being cut by the frost. For summer use it may be sown at intervals of 2 or 3 weeks, from March to August. Spinach is best developed, most tender and succulent when grown in rich soil. One ounce to 100 feet of drill; 10 to 12 pounds to an acre.

Practically all the Spinach Seed comes from Holland. As this Catalog goes to press, Holland has an embargo on this seed and at the present time none of it can be secured from that country.

This embargo may be lifted at any time or it may be kept on as long as the war lasts. We have seed contracted in Holland and if the embargo is lifted we will get the seed.

**AMERICAN CURLED SAVOY LEAVED.** A most valuable variety. In appearance the leaf is wrinkled in the same way as that of the Savoy Cabbage, hence the name. It produces nearly twice the bulk of crop as the ordinary sort, is fully as hardy and in all other respects equal.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**ROUND SUMMER.** This variety is generally preferred for early spring growing, and is popular with market gardeners. Leaves thick and fleshy. Not quite as hardy as the prickly, but stands winter well. . . . . Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**PRICKLY OR WINTER.** The hardest variety and will withstand the severest weather with only a slight protection of straw or leaves. The seed is prickly, leaves triangular, oblong or arrow-shaped. It is the best for fall sowing, which in this latitude is about the first of September.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00



SALSIFY



## SPINACH—Continued

**LONG STANDING.** An improved strain of excellent merit, having all the good qualities of the ordinary sorts; but it is especially desirable because of the fact that it is much later in going to seed than the average variety.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 60c; lb. \$2.00

**TRUE VICTORIA.** The foliage is heavy, the broad dark leaves being of the true Savoy appearance and are of the finest quality. The feature that makes it of especial value for both market and family gardens, is that it is in prime condition from two to three weeks after all other varieties of Spinach have run to seed.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 60c; lb. \$2.00

**LARGE, ROUND, THICK LEAF VIROFLAY.** A most valuable variety with very large thick leaves, making it especially desirable where bulk is wanted.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 60c; lb. \$2.00



LONG STANDING

**NEW ZEALAND.** (*Tetragonia expansa*.) This is not a Spinach of the ordinary kind, but a plant of branching growth. One single plant will grow to dimensions of six feet across, producing an abundance of thick, fleshy, juicy stems, and leaves, which make an excellent Spinach. The flavor is fine and the fact that it does well throughout the hottest summer, makes it all the more desirable. Every Market Gardener should grow a crop where there is a market for Spinach. It is a money-maker.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$ -lb. 60c; 1 lb. \$2.00

## SQUASHES

Spelse Kurbiss

Calabaza

**CULTURE.** Squashes are divided into two classes; the early summer sort and the late fruited winter varieties. Sow about the middle of spring in hills, the early sort about 4 feet apart, and the late varieties 6 to 8 feet. Drop enough seed to be thinned to three plants in a hill. The hills should be highly manured and prepared in a similar manner as those for cucumbers. One ounce to 40 hills for small sorts; large varieties 1 ounce to 20 hills; 4 to 5 pounds to an acre.

**BUG DEATH** kills all kinds of bugs and does not injure the foliage. Include some with your order. You will need it later.

## SUMMER VARIETIES



**EARLY WHITE BUSH.** This is the well-known White Patty-pan Squash. The earliest to mature, very productive; light cream colored.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 30c; lb. \$1.00

**MAMMOTH SUMMER CROOKNECK.** One of the best summer Squashes. It is twice as large as the ordinary Summer Crookneck, highly attractive, several days earlier. This combination of earliness and size makes it a most desirable variety for the market gardener as well as for private use.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 30c; lb. \$1.00

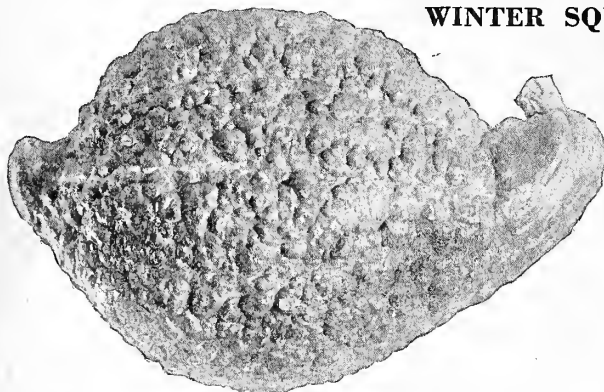
**GOLDEN SUMMER CROOKNECK.** A small crooknecked summer squash; skin bright yellow, covered with warty excrescences. Very early, productive and of excellent flavor.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 30c; lb. \$1.00

**MAMMOTH WHITE BUSH.** The fruit is a beautiful clear white wax instead of the yellowish-white so often seen in the old stock, and is much larger. . . . . Pkt. 5c; oz. 10c;  $\frac{1}{4}$ -lb. 30c; lb. \$1.00

If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices

## WINTER SQUASHES



**WARTED HUBBARD**

**HUBBARD.** The best table Squash yet known, rivaled only by the "Delicious," as described above. Good specimens are about equal to the sweet potato. It has a hard shell, and with some care will keep three months longer than the Marrows. Flesh fine grained, dry and of excellent flavor.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50.

**THE WARTED HUBBARD.** This is, in quality, one of the best winter sorts. It is attractive on the market and a ready seller. Very dark green, and flesh is dry and sweet. Very hard shell, which insures good keeping qualities. It is considered an improvement on the old type of Hubbard on account of its warted skin.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

**RED OR GOLDEN HUBBARD.** This is a very distinct sort, of the shape and general character of the Hubbard, but a little smaller, earlier to mature, and of a rich orange red instead of the dark olive green of the old Hubbard, while the flesh is of a little deeper color and of fully as good quality.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

**BOSTON MARROW.** Oval in form, color of skin bright orange, flesh yellow, very desirable for late autumn and winter use.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 90c

**ESSEX HYBRID.** An Improved American Turban, having the color, shape and superior quality of the Turban with the dry and hard shell of the Hubbard. It is not only one of the richest flavored, finest grained, and sweetest of all the Squash family, but also one of the very best keepers.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

**PROLIFIC MARROW.** One of the earliest varieties, remarkably productive and a good keeper. Its color is a most attractive brilliant orange red. In quality of meat it is rivaled by a few varieties only.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

**VEGETABLE MARROW.** A favorite English sort; early, skin greenish-white, flesh white, soft and of rich flavor; quite distinct from other sorts.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

**MAMMOTH CHILLI.** Although not new, we desire to call the special attention of all who want "Mammoth Squashes" to this variety. Size enormous, often weighing 100 to 200 pounds; very profitable for stock feeding, especially where root crops are not grown extensively; remarkably productive.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

**MARBLEHEAD.** An excellent keeper. It is about the size of the Hubbard with shell of bluish-green, and a bright orange flesh. Requires the whole season to mature.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50

**SIBLEY OR PIKE'S PEAK.** One of the best shippers owing to the hardness of the shell. Flesh is solid and thick of bright orange color and choice quality. Flavor rich and sweet, and it ripens easily.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50



**GREGORY'S DELICIOUS.** This fine new winter squash, now offered by us to the Western Planters is of the finest quality possible. The Eastern people have had it

for the past few years, and the popularity of this splendid variety increases steadily. In size it closely resembled the original Hubbard. In color it is almost uniform with occasionally a blue specimen. The thickness of its flesh surpasses nearly every other variety; the color being a dark orange. For table use it cannot be excelled; these Squashes represent a remarkable combination of fineness and compactness of grain, dryness, sweetness and exceeding richness of flavor.

Pkt. 5c; oz. 15c; ¼-lb. 45c; lb. \$1.50



## TOBACCO

**CULTURE.** Tobacco in this part of the country should be started in a hotbed in March and treated the same as tomatoes.

**HAVANA.** Pure Cuban grown seed. When grown in this country commands a high price as cigar stock.

**MISSOURI BROAD LEAF.** A well known standard sort, valuable for cigar wrappers.

**CONNECTICUT SEED LEAF.** Best adapted to the climate of the Middle and Northern States. as it is more hardy and endures the cold better than the tender varieties grown in the South.

**WHITE BURLEY.** A variety grown for the manufacture of fine cut and plug.

Pkt. 5c; oz. 25c; ¼-lb. 75c

Pkt. 5c; oz. 50c; ¼-lb. \$1.50

If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices



## TOMATOES

Tomaten oder Liebesapfe

Tomato

**CULTURE.** The seed should be grown in March in a hotbed or green house, or may be sown in a box and kept inside the window of a room where the night temperature is not less than 65 degrees. The plants should be thinned out in the bed so as to give them plenty of room or they will be weak and poor. They should be hardened before planting outside. About the middle of May the plants may be set in the open ground, from 4 to 5 feet apart each way. Our stock of tomatoes is grown by several of the best growers. One ounce produces about 1,500 plants.

To prevent rot and blight on tomato plants spray with Bordeaux Mixture, when first fruits have set. If disease appears repeat or use a weak Copper Sulphate solution as often as needed.



KANSAS STANDARD

**EARLIANA.** This is without doubt the earliest bright red tomato now in cultivation. The tomatoes are deep scarlet and grow closely together in clusters of five to eight. They are of medium size, smooth and solid. The plants are quite hardy with rather slender branches, bearing an abundance of fine tomatoes. The close dwarf habit of growth makes it very desirable variety where not much space can be wasted on a more spreading and branching variety. It is especially valuable as it produces fruit at the time when the prices are the highest. No market gardener should be without it... Pkt. 5c; oz. 35c; ¼-lb. \$1.25; lb. \$5.00

From an Oklahoma Paper.

### GROWS TOMATO VINE SIXTEEN FEET TALL

W. H. Neblick, 70, Calvin, Okla., has a tomato vine 16½ feet tall which he cultivated himself, a letter to The News says. A picture accompanied the letter, showing the old man picking big tomatoes from the vine.

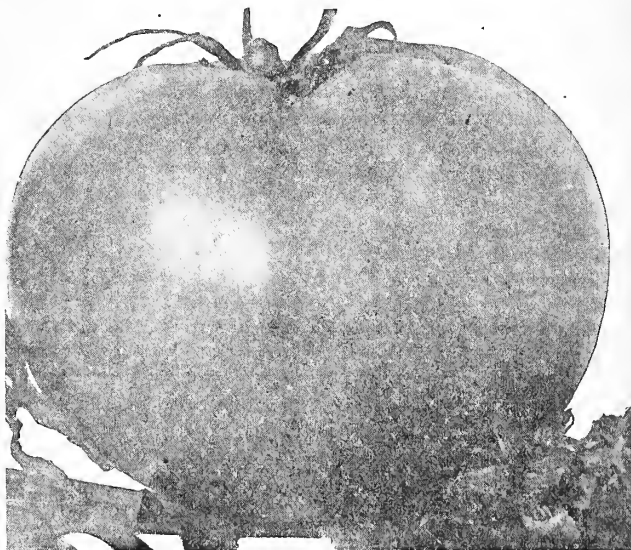
Neblick said he got the seed from Barteldes Seed company; the vine is the "late stone" variety, he said.

**KANSAS STANDARD.** The Kansas Standard belongs to the potato-leaved class of tomatoes; it is of rapid, vigorous growth, with strong heavy stalks, which stand up well unless, which is often the case, they are pulled down with over-abundant fruit. It begins blooming when only six or seven inches high, attains a height of from two and a half to three feet and sets its fruit—a rare habit in any tomato—from the first blooms. The fruit is of a bright, glossy red color and is produced in clusters of from four to five tomatoes. In shape the fruit is round, slightly flattened, ripening clear to the stem, perfectly smooth. It has very few seeds; the meat is thick and firm and of a most excellent flavor.

This tomato is a first-rate keeper and shipper on account of its tough skin, a fact which makes it also very resistable against influences of insects, which are so destructive to other varieties. Highly recommended... Pkt. 5c; oz. 35c; ¼-lb. \$1.25; lb. \$5.00

**THE MATCHLESS.** For the past twenty years Matchless has been the main crop variety, and in spite of many new varieties, claiming superiority, has maintained its position as the finest large-fruited bright red variety. The vines are of strong vigorous growth, well set with fruit. The fruits are free from core; of a very rich cardinal red color and are not liable to crack from wet weather. They are of very large size and the size of the fruit is maintained throughout the season until the vines are killed by frost. The skin is remarkably tough and solid, and ripe specimens picked from the vines will keep in good condition for several weeks. Our stock of Matchless is absolutely unsurpassed.

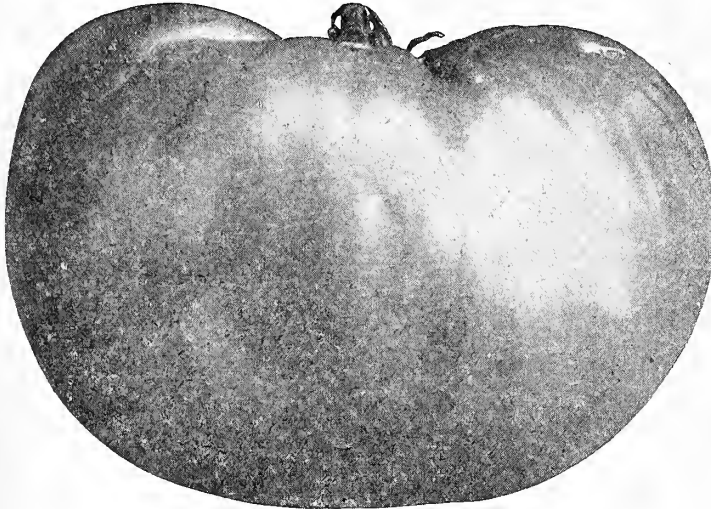
Pkt. 5c; oz. 35c; ¼-lb. \$1.25; lb. \$5.00



EARLIANA

If You Wish to Buy Seeds in Quantities Larger than Quoted Please Ask for Special Prices

## TOMATOES—Continued



PONDEROSA

**ATLANTIC PRIZE.** One of the largest, smoothest and best flavored of the extra early Tomatoes.  
Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00

**FAVORITE.** Has no green core; of perfect shape; smooth as an apple and never cracks after ripening. . . . . Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00

**PONDEROSA.** This is rapidly becoming the most popular variety for home gardening. The fruits grow to enormous size and are extra fine for slicing. If you want some real large tomatoes plant Ponderosa. Pkt. 5c; oz. 50c;  $\frac{1}{4}$ -lb. \$1.75; lb. \$6.00

**BARTELDES' STONE.** Next to the Matchless, and a fine Tomato, too, for main crop.

Pkt. 5c; oz. 30c;  $\frac{1}{4}$ -lb. \$1.00; lb. \$3.00

**PERFECTION.** A very heavy cropper and produces more and larger fruit toward the close of the season.

Pkt. 5c; oz. 30c;  $\frac{1}{4}$ -lb. \$1.00; lb. \$3.00

**TROPHY.** Large, smooth, solid, fine in color and prolific. Fine variety for gardeners or home use. . . . . Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00

## The Trucker's Favorite



This, in our estimation, is the "Peerless" amongst the pink tomatoes. A variety of such unusual merit that it deserves the highest praise and recommendation. It is truly "The Trucker's Favorite." Its fine and smooth, uniformly shaped fruits command the highest market price and when once a market has found out the meritorious characteristics of this splendid sort, it cannot do without it.

The fruits are thick-meated and very solid; the meat is of the finest flavor, making the tomatoes equally good for slicing and for cooking purposes. A basket of these tomatoes is one of the most attractive sights on the market table, and parties offering them for sale will find the demand larger than the supply. Be sure to include this variety in your next order. You will want more seed next year.

Pkt. 5c; oz. 45c;  $\frac{1}{4}$ -lb. \$1.50; lb. \$4.50

**ACME.** A Tomato of superior quality; of medium size and slightly oval in shape. Flesh deep scarlet and unusually solid. Grows very regular. . . . . Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.25; lb. \$4.00

**BEAUTY.** It grows in clusters of four or five large fruits, retaining its large size very late in the season. It ripens very early and evenly, and is in perfect shape. . . . . Pkt. 5c; oz. 40c;  $\frac{1}{4}$ -lb. \$1.25; lb. \$4.00

**DWARF CHAMPION.** Its close, upright growth enables it to be planted much earlier and nearer together than any of the older sorts, and the yield, therefore, is accordingly much greater. In productiveness it is unsurpassed. It is also very early. The fruit resembles the Acme, and is of a purplish pink color, and always smooth and symmetrical in form. It is medium size and attractive in appearance; the skin is tough and the flesh solid and of fine quality. . . . . Pkt. 5c; oz. 45c;  $\frac{1}{4}$ -lb. \$1.50; lb. \$5.00

## YELLOW AND SMALL-FRUITED VARIETIES

| Varities   | Pkt. | Oz. | $\frac{1}{4}$ -lb. | Lb.    |
|--|------|-----|--------------------|--------|
| <b>Golden Queen.</b> The best yellow variety. Of superior appearance and a distinct flavor of its own. . . . . | 5c   | 30c | \$1.00             | \$3.50 |
| <b>Yellow Plum.</b> Color bright yellow; excellent for preserving. . . . .                                     | 5c   | 30c | 1.00               | 3.50   |
| <b>Red Plum.</b> Same as above except color. . . . .   | 5c   | 30c | 1.00               | 3.50   |
| <b>Red Pear.</b> A small variety, early; fine for preserving. . . . .  | 5c   | 30c | 1.00               | 3.50   |
| <b>Yellow Pear.</b> Same as above, except color. . . . .   | 5c   | 30c | 1.00               | 3.50   |
| <b>Red Cherry.</b> A small variety, size and shape of a cherry; for pickling. . . . .                          | 5c   | 30c | 1.00               | 3.50   |
| <b>Yellow Cherry.</b> Same as above, except color. . . . .   | 5c   | 30c | 1.00               | 3.50   |
| <b>Husk Tomato or Ground Cherry.</b> This is very fine for preserves; immensely productive. . . . .            | 5c   | 30c | 1.00               | 3.50   |

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## TURNIPS

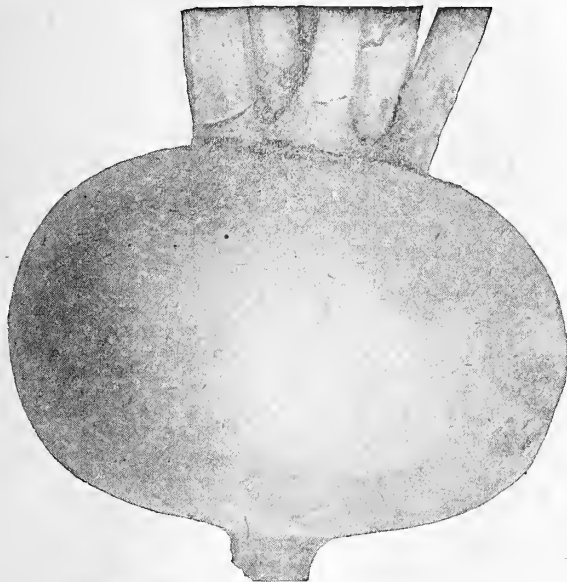
**Rüben**

**Naber**

**CULTURE.** Turnips do best in highly enriched light sandy or gravelly soil; commence sowing the earliest varieties in April in drills from 12 to 15 inches apart, and thin out early to six or nine inches in rows. For a succession sow at intervals of a fortnight until the last week in July, from which time until the end of August sowing may be made for the fall and main crop. One ounce will sow 150 feet of drill; one and one-half pounds to the acre.

For feeding stock in the fall or winter there is nothing superior to turnips and rutabagas, as they are much liked by all kinds of stock and serve to keep them in good condition. We cannot too earnestly recommend farmers to increase their sowings largely, for we are sure the crop will prove remunerative.

### WHITE-FLESHED VARIETIES



**EARLY WHITE EGG.** A quick-growing egg-shaped variety, perfectly smooth, pure white, growing half out of the ground, with small top and rough leaves. Its pure white skin and quick growth make it particularly suitable for market purposes. The flesh is very sweet, firm and mild, never having the rank strong taste of some varieties.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**PURPLE TOP STRAP-LEAVED.** The standard for this part of the country. Superior for early or late planting. Round, flat, good sized, small top with but few leaves; flesh very fine; flavor good.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**EXTRA EARLY PURPLE TOP MILAN.** The earliest in cultivation. The bulb is very flat, of medium size, quite smooth, with a bright purple top; leaves few, short and light of color, growing very compact and making an exceedingly small and neat top. The pure white flesh is of the choicest quality, hard, solid and fine grained. It is an excellent keeper. Pkt. 5c; oz. 25c; ¼-lb. 75c; lb. \$2.50

### PURPLE TOP STRAP-LEAVED

**EARLY WHITE FLAT DUTCH.** (Strap-leaved.) This is a popular early turnip for table use. For autumn and the early winter use this and the Purple Top are highly popular.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**LARGE EARLY RED TOP GLOBE.** An old favorite, large sized, of rapid growth, unusually attractive and admired by all who have seen it.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**POMERANIAN WHITE GLOBE.** This is a free-growing, rough-leaved sort, useful for both table and stock. It is not quite so rapid in growth as the flat varieties, may be expected to come in as a succession in autumn and is admired for table use in early winter. Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**EXTRA EARLY WHITE MILAN.** Very similar to the preceding except the skin is pure white, thus making it especially desirable for forcing.

Pkt. 5c; oz. 25c; ¼-lb. 75c; lb. \$2.50

**LONG WHITE OR COW HORN.** Without question a good flavored and delicate sort. A distinct feature is its rapid growth. This variety is a pure white, except a dash of green at the crown, and in shape is long like a carrot and generally crooked, hence its name. Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**EARLY SNOWBALL.** Is medium sized, pure white and early, of excellent quality. In our market it is much admired.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

### YELLOW-FLESHED VARIETIES

**AMBER GLOBE OR STRAP-LEAVED.** One of the best varieties for table use or for a field crop for stock. Flesh yellow, fine-grained and sweet, color of skin yellow with green top. Hardy, keeps well, a good cropper, grows to a very large size.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**GOLDEN BALL OR ORANGE JELLY.** Undoubtedly one of the most delicate and sweetest yellow-fleshed Turnips. Not a large size, but firm and hard, and of most excellent flavor. Keeps well.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**YELLOW ABERDEEN OR SCOTCH YELLOW.** This is a turnip fine for cattle feeding. It attains a large size, is solid, nutritious, a good keeper, and can be recommended in every respect.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

**SEVEN TOP.** Cultivated exclusively in the South for the tops, which are used for greens. It is very hardy and will grow all winter, but does not produce a good root.

Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00

### RUTABAGAS OR SWEDISH TURNIPS

**PURPLE TOP YELLOW RUTABAGA.** The best variety of Swedish turnip in cultivation. Hardy and productive, flesh yellow, of solid texture, sweet and well flavored; shape slightly oblong; terminates abruptly with no side or bottom roots; color deep purple above and bright yellow under the ground; leaves small, light green, with little or no neck; the most perfect in form, the richest in flavor and the best in every respect. Pkt. 5c; oz. 25c; ¼-lb. 75c; lb. \$2.50

**SWEET GERMAN.** Flesh white, hard and firm, partaking much of the nature of the rutabaga. Must be sown much earlier than the flat turnip. In the autumn and the early winter it is apt to be too hard, but mellow like an apple by keeping. Pkt. 5c; oz. 25c; ¼-lb. 75c; lb. \$2.50

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## AROMATIC, MEDICINAL AND POT HERBS

| Varieties   | Pkt. | Oz. | Varieties  | Pkt. | Oz. |
|---|------|-----|--|------|-----|
| <b>Anise.</b> An annual, cultivated for its seeds and its leaves, which have a fragrant, agreeable scent and a pleasant taste.... | 5c   | 15c | <b>Rosemary.</b> Perennial; the tops only are used as a medicine.....  | 5c   | 40c |
| <b>Balm.</b> A hardy perennial of aromatic taste and fragrant smell.....  | 5c   | 25c | <b>Rue.</b> Perennial; a very powerful tonic. It must not be allowed to run to seed....  | 5c   | 25c |
| <b>Borage—Gurkenkraut.</b> Annual. In Germany the leaves are cut and used for a cucumber salad. Beautiful blue flowers.....       | 5c   | 25c | <b>Sage.</b> Perennial; tea made from these leaves is an excellent means of producing sweat.....   | 5c   | 30c |
| <b>Caraway—Kuemmell.</b> The seed are useful for flavoring.....   | 5c   | 15c | <b>Saffron.</b> Annual; the dried flowers are used for medicinal purposes.....   | 5c   | 20c |
| <b>Catnip or Catmint.</b> A great favorite among medicinal herbs.....   | 5c   | 30c | <b>Savory.</b> Annual; leaves are used for culinary purposes.....  | 5c   | 30c |
| <b>Chervil.</b> Annual, used for soups and salads.....  | 5c   | 15c | <b>Sorrel.</b> Broad leaved. Perennial; used in soups and salads and sometimes cooked like spinach.....                                  | 5c   | 20c |
| <b>Coriander.</b> Annual, its tender leaves are sometimes used for soups and salads....   | 5c   | 15c | <b>Sweet Basil.</b> Annual; the leaves are used for highly seasoned dishes as well as in soups, stews and sauces.....                    | 5c   | 25c |
| <b>Dandelion—Loewenzahn.</b> Perennial; cultivated for spring greens; an excellent tonic.....                                     | 5c   | 30c | <b>Sweet Fennel.</b> Perennial. Tea made from the seed is an excellent remedy in case of colic and stomach complaints....                | 5c   | 15c |
| <b>Dill.</b> Annual; it is cultivated for its seeds, which are used medicinally and for flavoring pickles.....                    | 5c   | 20c | <b>Sweet Marjoram.</b> Biennial; the leaves are used in soups, the seeds in the manufacture of sausage. An aromatic of sweet flavor..... | 5c   | 30c |
| <b>Hop.</b> The popular variety of commerce.....  | 20c  |     | <b>Sweet Thyme.</b> Perennial; thyme tea is an excellent remedy for nervous headaches....  | 5c   | 40c |
| <b>Horehound.</b> Perennial; of strong and aromatic smell; used as a tonic.....   | 5c   | 30c | <b>Tarragon.</b> Perennial. A very popular French herb for making Tarragon vinegar.....  | 10c  |     |
| <b>Hyssop.</b> A perennial with aromatic flowers and of pungent flavor.....   | 5c   | 30c | <b>Wormwood.</b> Perennial; used for medicinal purposes. Beneficial to poultry and should be planted in every poultry yard....           | 5c   | 30c |
| <b>Lavender.</b> Perennial; cultivated for its fragrant flowers and aromatic leaves....   | 5c   | 30c |  |      |     |

NO GARDEN IS COMPLETE WITHOUT A FEW HERBS

## GOOD BOOKS ON GARDEN AND FARM TOPICS

All Books Prepaid

|   |        |  |        |
|---|--------|--|--------|
| <b>Amateur Fruit Growing.</b> A practical guide by S. B. Green. Price.....                                  | \$0.25 | <b>Manual on Propagation and Cultivation of the Paeony.</b> Price.....   | \$0.25 |
| <b>Alfalfa.</b> 164 pages, illustrated; by Coburn. Price.....   | .50    | <b>Money in Grasses.</b> By J. T. Barenburg. Illustrated. Price.....   | 1.00   |
| <b>Asparagus.</b> Its culture for home use and market. Cloth cover. Price.....                              | .50    | <b>Mushroom Culture and Pure Culture Spawn.</b> Price.....   | .35    |
| <b>Bailey's Forcing Book.</b> New edition. Complete treatise for growing vegetables under glass. Price..... | 1.35   | <b>The New Rhubarb Culture.</b> Cloth cover. Price.....  | .50    |
| <b>Bulbs and Bulbous Plants.</b> Illustrated. Price.....  | .20    | <b>New Onion Culture.</b> Illustrated. Price....   | .50    |
| <b>Cabbage and Cauliflower for Profit.</b> By J. M. Lupton. Price.....                                      | .30    | <b>Onions for Profit.</b> 104 pages, illustrated. Price.....   | .30    |
| <b>Celery Culture.</b> By W. R. Beatty. A practical treatise. Price.....                                    | .50    | <b>The Potato.</b> By E. H. Grubb and W. S. Guilford. Price.....   | 2.00   |
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## FLOWER SEEDS

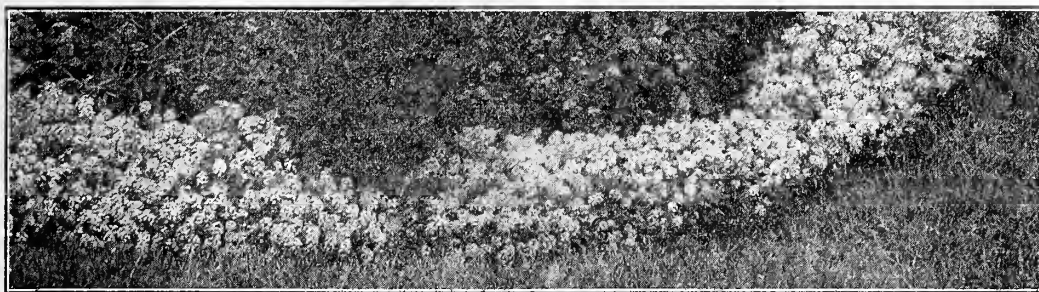
Flower Seeds are all Postpaid at Catalog Prices

**ANNUALS.** Attain growth from seed, flower and die in one year.

**BIENNIALS.** Grow from seed one year, bloom and die the next. Some varieties bloom the first year if sown early.

**PERENNIALS.** Last for several years, blooming annually after the first season. Some varieties bloom the first year if sown early. May also be propagated by cuttings, slips or division of the roots.

**DEPTH OF PLANTING.** Cover seeds to a depth of about four times the size of the seeds. This rule applies in a general way and there are some exceptions.



A BORDER OF SWEET ALYSSUM

**ABRONIA UMBELLATA.** A handsome trailing plant with clusters of sweet-scented flowers, resembling verbenas in shape, but of smaller size; color rose lilac, with white eyes. Fine for baskets and vases as well as the garden. Remove the husks from the seed before sowing (as it grows much surer). Height 6 inches. Half hardy annual.....Pkt. 5c

**ABUTILON OR FLOWERING MAPLE.** Desirable plant for the conservatory in winter, and effective border plants during summer, producing a profusion of flowers. Half hardy shrubs. Height 2 to 6 feet; perennial. Finest Mixed.....Pkt. 15c

**ACROCLINIUM.** (Everlasting.) This beautiful everlasting flower somewhat resembles the Rodanthe, but the flower heads are of a larger size. It is largely used for winter bouquet, for which purpose the flowers should be cut before they are fully expanded. Half hardy annual.  
Mixed.....Pkt. 5c      White.....Pkt. 5c

**ADLUMINA OR ALLEGHENY VINE.** A most beautiful and graceful climber, thriving in a sheltered situation, and climbing by its tendrils to any object within reach. Is sometimes known as Mountain Fringe, Wood Fringe and Allegheny Vine. The beautiful pink and white flowers are produced in abundance during the three summer months. It is biennial and makes but little growth the first season. Height 15 feet. White and Pink.....Pkt. 10c

**ADONIS AESTIVALIS.** Plants with fine and graceful foliage and brilliant scarlet flowers, remaining in bloom a long time. Grows well in shade or under trees. Height 1 foot. Hardy annual.  
Pkt. 5c

**AGERATUM MEXICANUM.** Flowers light blue or lavender, very desirable for bouquets, furnishing a continuous bloom through the summer. Plants flower well in house all winter, when potted in the fall before frost. Height 12 inches. Hardy annual.  
Pkt. 5c

**AGROSTEMMA CORONARIA.** (Rose Champion.) Perfectly hardy plants, producing pretty pink-like blossoms, on long, slender stems. Very useful for cutting bouquets, and pretty in masses or in bed. About 1½ feet high. Perennial.  
Fine Mixed.....Pkt. 5c

**ALYSSUM, SWEET.** Excellent for borders and the flowers are fine for bouquets. Flowers are white, very fragrant and produced abundantly through the summer and until after severe frosts. Hardy annual. Height one foot..Pkt. 5c; oz. 25c

**ALYSSUM, LITTLE GEM.** Very dwarf and spreading, making a very dense mat which looks like a carpet of snow. In bloom all summer and fall. Especially adapted to borders.....Pkt. 5c; oz. 35c

**ALONSOA MYRTIFOLIA.** An attractive bedding plant with remarkably brilliant scarlet flowers, in bloom from July till frost. Removed to the house, they bloom well during the winter. Height 18 inches. Half hardy annual.....Pkt. 5c

**ANTIRRHINUM.** (Snapdragon.) One of the most desirable flowers in the catalog for its variety of color and succession of bloom, lasting from July until severe frosts. The plants should be covered with fine boughs or other light material, in November, and they usually survive and bloom finely the second year. Height 1 foot. Biennial.

Dwarf Mixed Colors.....Pkt. 5c  
Tall Mixed Colors.....Pkt. 5c  
Queen of the North, White.....Pkt. 5c

Coral. New variety growing 2½ feet high and a profuse bloomer; color, bright red, and white throat.  
Pkt. 10c

**AMARANTHUS.** Valuable for its varieties of handsome foliage, whether grown in the conservatory or garden. The colors will be more brilliant if planted in moderately rich soil. Height 2 to 3 feet. Hardy annual

Amaranthus tricolor (Joseph's coat).....Pkt. 5c  
Amaranthus caudatus (Love lies bleeding) ..Pkt. 5c  
Amaranthus cruentus (Princess feather) ....Pkt. 5c

**AMMOBIUM ALATUM.** A small, white Immortelle, everlasting, very useful for cutting when fresh and drying admirably for a winter bouquet; producing a succession of bloom from July until frost. Height 18 to 24 inches. Hardy annual....Pkt. 5c

**ASPERULA AZUREA SETOSA.** A flower that because of it's shape, size, and delicate color—a light blue or lavender—is excellent for bouquets.

In bloom from July until after severe frosts. Hardy annual. Height 9 inches.....Pkt. 5c

**AMPELOPSIS.** One of the best climbing plants for permanent situations, as it is perfectly hardy, clinging to the sides of whatever it may be grown

against by the rootlets it throws out all along the stems. In the autumn the dark green foliage assumes beautiful tints of orange, crimson, etc. Height 5 to 10 feet. Hardy perennial.

**Ampelopsis Quinquifolia** (American Woodbine) Pkt. 5c

**Ampelopsis Veltchil** (Japan or Boston Ivy)...Pkt. 5c

**ARMERIA MARITIMA.** (Sea Pink.) These handsome plants are well adapted for ornamenting rock work and edging walks. Hardy perennials. Height 6 inches.....Pkt. 5c

## ASTERS



FIELD OF ASTERS AS GROWN FOR SEED IN CALIFORNIA

The Aster is one of the most satisfactory of all annual flowers. The splendid variation of color and the long stems make them very desirable for cut flowers.

### GOOD MIXED

A good mixture of all kinds.....Pkt. 5c

**QUEEN OF THE MARKET.** The earliest variety. Colors white, pink, red, blue or mixed. Pkt. 10c; ¼-oz. 40c

**TRUFFAUTS PAEONY FLOWERED.** An old standard of medium height. The colors are bright and delicate; the flower deserves a place in every garden.

The following colors:

Azure, blue, indigo, lavender and pure white, each.....Pkt. 10c; all mixed colors, ¼-oz. 50c.

**COMET OR BRANCHING.** A very handsome and distinct class of half-dwarf habit.

Giant White, the finest white.....Pkt. 10c  
Many Colors Mixed.....Pkt. 10c; ¼-oz. 60c

**ASPARAGUS.** A very popular house plant, much used for hanging baskets. Perennial.

Sprengerl.....Pkt. (15 seeds) 10c  
Plumous Nanus.....Pkt. (12 seeds) 15c

**BELL FLOWER.** (See Campanula.)

**BIGNONIA RADICANS.** (Trumpet Vine.) Magnificent, hardy, deciduous climber with brilliant flowers deserving a first place as an ornamental and effective covering for walls of houses, etc. Hardy perennial. Height 20 to 30 feet.....Pkt. 10c

**GERMAN QUILLED.** Of the same type as the Japanese Needle Asters, this variety is valued particularly for its abundance of fine flowers which it produces. The plant grows from 18 to 20 inches high, bearing often 30 to 40 flowers, which are carried on long graceful stems....Pkt. 10c; ¼-oz. 50c

**VICTORIA ASTERS.** One of the best asters for all-round use. It grows 15 to 20 inches high, setting numerous and well-developed flowers which often measure 4 to 5 inches in diameter.

Finest Mixed.....Pkt. 10c

**DAYBREAK.** This variety is the "Phoenix" Aster, the color is a beautiful delicate pink.. Pkt. 10c

**BEGONIA.** (Tuberous rooted.) The newer forms of Begonias are among the best brilliantly beautiful flowering plants. The plants will give an abundance of bloom the first year and at the end of the season they may be dried off by withholding water. Plant the bulbs the following spring, when they will bloom more freely than ever.

Single mixed.....Pkt. 20c  
Double Mixed.....Pkt. 25c

**BULBS.** (See page 70.)





## BACHELOR'S BUTTON

(*Centaurea Cyanus*)

Also called Corn Flower, Ragged Sailor, etc. A hardy annual of easy culture. Will grow and flower freely in any garden soil. Will re-seed itself and grow from year to year. It is one of the best of the old-fashioned flowers and excellent for bouquets. Pkt. 5c

**BALSAM.** Intense cultivation and continuous selections have improved these flowers to such an extent that persons having the old common forms in mind, will hardly recognize the new selected sorts. Require a rich, deep soil, good cultivation and plenty of space to grow to perfection.

**Double White Alba Perfecta**.....Pkt. 10c; oz. 60c  
**Double mixed**.....Pkt. 5c; oz. 35c  
**Double, Camellia, mixed**.....Pkt. 10c; oz. 60c

**BALSAM APPLE AND BALSAM PEAR.** (Mormordica.) Rapid climbers with curious yellow fruit, which opens when ripe showing the seed and the blood-red interior. Either Apple or Pear.....Pkt. 5c

**BEEETS OF ORNAMENTAL FOLIAGE.** A species of Swiss Chard in various colors. Pkt. 5c; oz. 20c

**BOX WOOD.** (Evergreen Buxus sempervirens.) A small evergreen with pale green leaves. Can be trained in desired form by shearing, largely used for bordering flower beds. Hardy perennial...Pkt 50

**BOSTON IVY.** (See Ampelopsils.)

**BRACHYCOME IBERIDIFOLIA.** (Swan River Daisy.) A delicate dwarf-growing plant, suitable for growing in grasses, edging, and rustic baskets. The flowers are of various shades of blue and white, with dark and white centers, cineraria-like in form, rather bell-shaped. After blooming, the petals of the flower roll up closely. All colors mixed...Pkt. 5c

## BURNING BUSH OR SUMMER CYPRESS

(*Kochia Trichophila*)

This we consider one of the most ornamental border or hedge plants that has ever been brought out and it is sure to attract attention. The plants branch freely, and the stems are clothed with slender light green leaves. Early in the fall the ends of the shoots are thickly set with small bright scarlet flowers, the bushy plants resembling balls of fire. The plants are equally showy planted singly to show the round ball-like forms on all sides or grown in continuous rows.....Pkt. 50

**CACALIA COCCINEA.** (Tassell Flower.) A pretty annual with flowers of bright scarlet and orange, borne in clusters on slender stalks, about a foot in length. They keep in bloom from early summer until early autumn, furnishing flowers for cutting every day. Height 1-foot.....Pkt. 5c

**CALCEOLARIA HYBRIDA GRANDIFLORA.** A favorite and universally admired genius, remarkable for their large, beautifully spotted blossoms produced in almost countless variegations of markings. They are grown in pots in the conservatory, greenhouse and garden. Flowers of immense size, seed saved from finest specimens.....Pkt. 25c

## CALLIOPSIS

A very showy border plant, producing flowers in nearly every shade of yellow, orange, crimson, red and brown. If seed pods are removed as fast as they appear the plants will remain in bloom much longer. Height 2 feet. Hardy annual. Mixed colors.....Pkt. 5c

**CALENDULA OFFICINALIS.** This splendid variety has large flowers, beautiful imbricated, resembling in size and form the finest Aster. Each petal of plate straw color, is regularly marked with a stripe of bright deep orange. It blooms profusely with a succession of flowers from July until frost. It comes true from seed, and is one of the best annuals for a garden display. Height 18 inches. Pkt. 5c

## CANNA

Stately plant with foliage of elegant growth, presenting a luxurious and tropical appearance, are much employed in ornamental planting; when planted in clumps of 4 or 5 contrasting colors, they are very effective. Height 3 feet. Tender perennial. Mixed colors.....Pkt. 5c  
**Madam Crozier varieties**.....Pkt. 5c

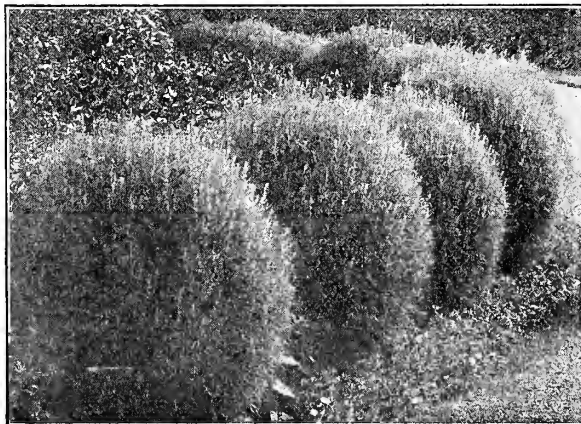
For Bulbs, see Bulb list on page 71.

**CALIFORNIA POPPY.** (See Eschscholtzia.)

## CALLA AETHEOPICA

An old and very desirable plant, either an acquatio or for ornamentation of the drawing room and conservatory. Thrives in any light, rich soil where plentifully watered. Height 1 to 2 feet. Half-hardy perennial.....Pkt. 10c

**CATCHFLY PLANT.** (*Silene Armeria*.) A showy, free-flowering plant, with bright, dense heads of flowers growing well in common garden soil. Adapted for border, circular beds and ribbons. Height 18 inches. Hardy annual.....Pkt. 5c



**BURNING BUSH**



## CAMPANULA MEDIUM

(Bell Flower)

Campanulas embrace a great many beautiful popular perennials, like the Canterbury Bell, and also a number of annuals of great value for forming masses, as they are neat of habit, hardy and free bloomers. Height 1-foot. Hardy annual. Many varieties mixed.....Pkt. 50

**CANARY BIRD FLOWER.** (*Tropaeolum Canariense.*) One of the best climbing plants, with graceful foliage of a delicate green shade with small yellow flowers which, when half expanded, have in shape a fanciful resemblance to canary birds. Height 8 feet. Half-hardy annual..Pkt. 10c

**CANDYTUFT.** (*Iberis coronaria.*) All of the colors of Candytuft are desirable for bouquets, especially the white, for its form and fragrance and profusion of bloom. Height 1-foot. Hardy annual.  
**White Rocket.**.....Pkt. 5c; oz. 20c  
**Tom Thumb, Dwarf.**.....Pkt. 5c; oz. 20c  
**Many Colors mixed.**.....Pkt. 5c; oz. 20c

## CARNATIONS

This beautiful and well-known flower produces a finer bloom when grown from seed than when grown from cuttings taken from old plants. This seed will produce a fine variety of colors, with flowers good size and substance. Height 18 inches. Half-hardy perennial.

**German, mixed colors.**.....Pkt. 10c  
**Marguerite, blooms in four months from time of planting.**.....Pkt. 10c  
**Grenadin, Pink and White.**.....Pkt. 10c

**CASTOR BEANS.** (*Ricinus.*) A luxuriant expansive foliage plant of tropical appearance, that should have a place in every garden affording the necessary space. The stalks of the plant of this variety are brownish-red; the leaves are very large palmate and strikingly elegant. Height 6 to 10 feet. Tender annual.

**Sanguineus, large red.**.....Pkt. 5c; oz. 15c

**Zanzibariensis. New Zanzibar, a giant large-leaved variety.**.....Pkt. 5c; oz. 20c

**CENTAUREA.** (Dusty Miller.) Magnificent foliage plants of silver white and gray foliage, indispensable for borders and edges. Half-hardy perennial. Height 1-foot.

**Candidissima, mixed.**.....Pkt. 10c  
**Gymnocarpa.**.....Pkt. 5c

### CENTAUREA IMPERIALIS:

**Many Colors, mixed.**.....Pkt. 10c  
**White.**.....Pkt. 10c

**CENTAUREA MARGUERITE.** A sweet-scented Centaurea, about as large as a medium-sized Carnation. It is a sport from Centaurea Odorata, and the plants are about 18 inches high. The flowers are beautifully lacinated and produced on long stems; their lasting quality after being cut is remarkable. The beauty of this easily cultivated annual is certain to excite admiration.

**Mixed Colors.**.....Pkt. 10c



## CHRYSANTHEMUMS

(Early Annual.)

The glorious and showy autumn blooming Chrysanthemum, which are now so much admired and cultivated, have their relatives among the summer annuals which are easily raised from seed. The plants can be raised by sowing the seed early in the house or frame and planting them out when the weather is favorable, or the seeds can be sown in an open seed bed, or where the plants are to stand, provided the plants are thinned out to 8 to 12 inches apart. A little shade, or shade in the after part of the day is desirable for them—a border on the east or northeast side of the house would be desirable. Pinch them back until July 15 to make them grow branching and full.

**Mixed colors.**.....Pkt. 5c

**CHRYSANTHEMUM MAXIMUM.** (Large or Ox-eyed Daisy.) A large free-blooming hardy perennial, 2 feet high, literally covered with pure white flowers, which are well adapted for cutting, lasting over a week in water.....Pkt. 10c

**CHRYSANTHEMUM FRUTESCENS.** Marguerite or Paris Daisy.) This variety, under the name of Marguerite has attained great popularity among florists. The pretty star-shaped white flowers are freely produced and the plant will grow under almost any circumstances.

**Perennial.**.....Pkt. 10c





## COSMOS

This is one of the showiest annuals for late summer blooming. The beautiful flowers are borne on long stems and this with the feathery foliage make them excellent for decorative purposes. The flowers will last about a week in water.

The plants grow from four to six feet tall and when given sufficient space will branch quite freely and produce a great many beautiful flowers. They can be transplanted any time until shortly before blooming.

We have White, Pink, Crimson, Yellow and Mixed at 5c per packet.

SEE ALSO UNDER NOVELTIES

## CLEMATIS

Well-known climber generally used for covering arbors and verandas. Have very fragrant flowers and the vines will cling to most any object. They are perennials and will live from year to year but need some protection in the North. Commonly planted by setting out the roots but can also be grown from seed. .Pkt. 10c

For Clematis Plants see under Nursery Stock.

### CINERARIA HYBRIDA GRANDIFLORA.

Very attractive, much admired greenhouse plant; Height 1 to 2 feet. . . . .Pkt. 25c

### CINERARIA. (Maritima Candidissima.)

White-leaved; used for bedding, vases, etc. Height 1-foot. . . . .Pkt. 5c

### CLARKIA PULCHELLA.

The Clarkia is highly esteemed in Europe, especially in England, where it is as common as the Candytuft. The flowers are very pretty and of many colors double and single. As the plant is apt to suffer in our hot, dry summers, it is better to sow the seed in September and the plants will be large enough by spring to make a good bloom. Hardy annual. Height 1½ inches. . . . .Pkt. 5c

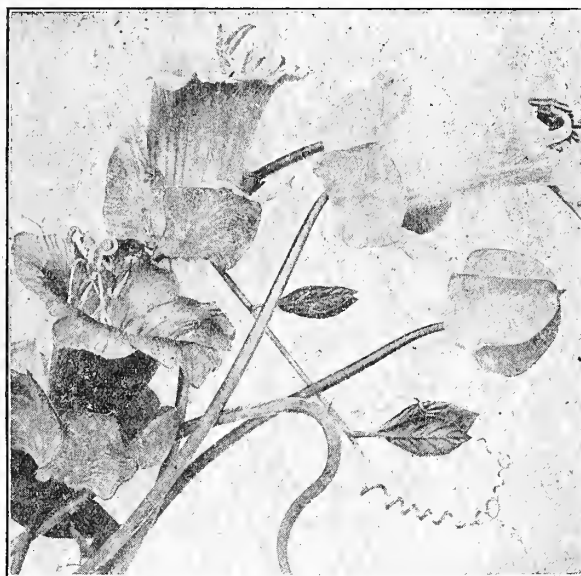
### CLEOME OR SPIDER PLANT.

Better known in the West as "Rocky Mountain Bee Plant." It is the emblem flower of the Colorado State Bee Keepers' Association. Has a very attractive flower in shades of pink and crimson, on tall branching plants. A splendid honey plant. . . .Pkt. 5c; oz. 10c

### CLIMBING BLACKEYED SUSAN. (See Thunbergia.)

**CLIMBING ANNUALS MIXED.** In this we have included all the popular quick-growing climbing annuals, such as Ipomoeas, Nasturtiums, Sweet Peas, Japanese Hops, Cypress Vine, etc. Just the thing for covering old fences, arbors, etc.

Pkt. 10c; ¼-oz. 25c



## COBEA SCANDENS

(Cup and Saucer Vine.)

A splendid climbing plant, with large purple bell-shaped flowers and elegant tendrils; when well established grows very rapidly, with numerous branches. Height 15 to 20 feet. Tender annual. Pkt. 10c

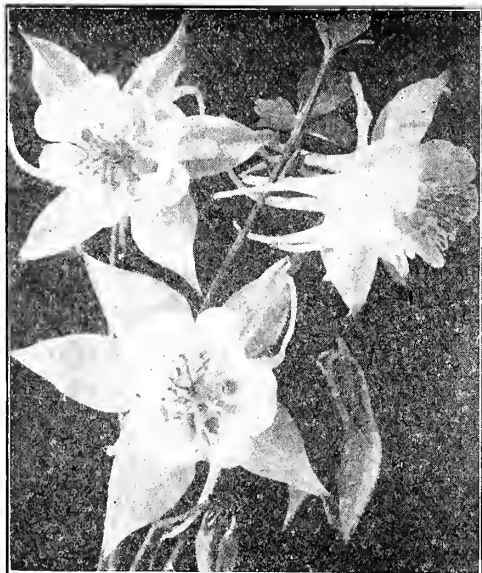
**COLEUS.** Probably there is no other kind of foliage plants so well known and universally admired as the Coleus. It is one of the most beautiful of our variegated perennial foliage plants for the greenhouse or garden decorations, ribbon-beds, etc., of rapid growth and easy culture. Tender perennial. Height 1 to 2 feet. New Hybrid Mixed. .Pkt. 25c

## COCKSCOMB

(Celosia Cristata)

A highly ornamental plant, producing crested heads of flowers, somewhat resembling a cock's comb. There are many colors and shapes, but the scarlet and crimson ones are the most brilliant and rich. Height 1 to 2 feet.

Dwarf, mixed colors. . . . .Pkt. 10c  
Feathered. . . . .Pkt. 10c  
Mixed. . . . .Pkt. 5c



## ROCKY MOUNTAIN COLUMBINE

(*Aquilegia Coerulea*)

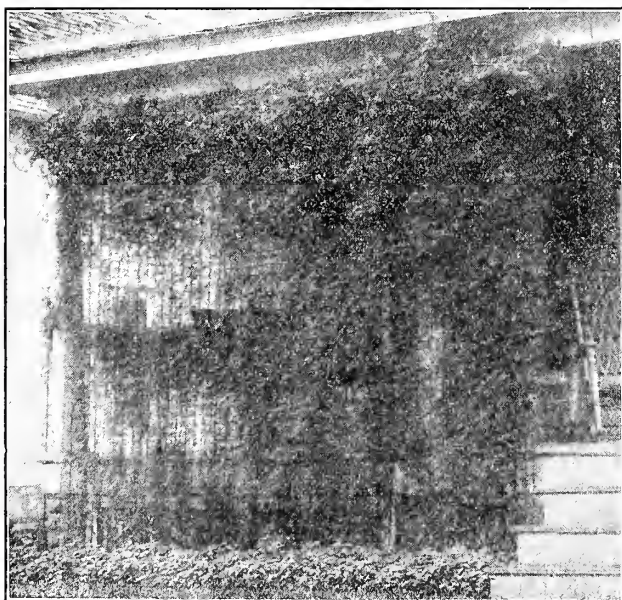
Colorado's emblematic flower. Needs to be seen to be appreciated. Color is a light blue, in very high altitudes nearly white. We are headquarters for this seed and furnish the true stock. . . Pkt. 10c

We can supply roots of this variety at 20 cents each, or three for 50 cents, postage paid.

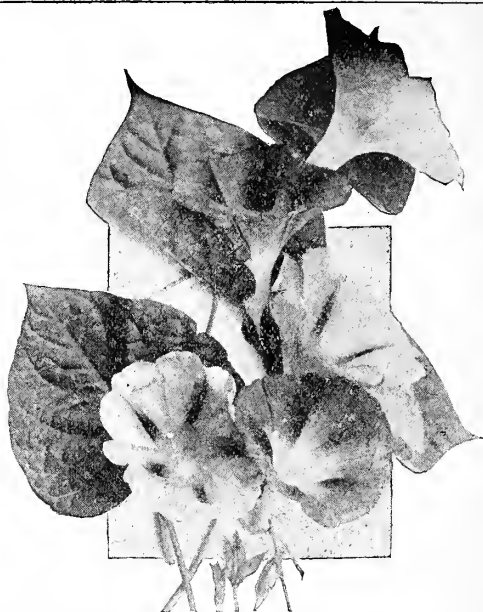
### OTHER VARIETIES OF COLUMBINE

These new double sorts are very beautiful and embrace a variety of colors and forms. Height from one to three feet. Hardy perennial.

Mixed colors. . . . . Pkt. 10c  
Yellow. . . . . Pkt. 10c



A VERY BEAUTIFUL AND EFFECTIVE PORCH SCREEN OF CYPRESS VINE



## CONVOLVULUS OR MORNING GLORY

(See also under Novelties.)

**TALL MORNING GLORY.** (*Convolvulus Major*.) This well-known annual is one of the most popular climbers. Of rapid growth, soon covering a fence or trellis with abundant foliage and bright flowers. A great variety of colors and shades. Height 10 feet. Hardy annual.

Mixed colors. . . . . Pkt. 5c; oz. 15c; ¼-lb. 35c

**IMPERIAL JAPANESE.** The flowers are of immense size and of strong colors. Soak seed before planting. . . . . Pkt. 5c; oz. 25c

**DWARF MORNING GLORY.** (*Convolvulus Minor*.) A trailing procumbent plant with flowers of rich shades in blue in some instances rivaling the pansy in richness of color, finely shaded with yellow and white. In bloom from July until after severe frosts. Height 10 inches. Half-hardy annual. . . . . Pkt. 5c

## COREOPSIS LANCEOLATA

Flowers large, single golden yellow. For generosity of bloom there is nothing to compare with it, and it will bear cutting far better than any other plant; at the same time it is always graceful. It can be sown freely from seed and does well when treated as an annual.

Pkt. 5c

### CORN FLOWER ASTER

(See *Stokesia*.)

## CYCLAMEN

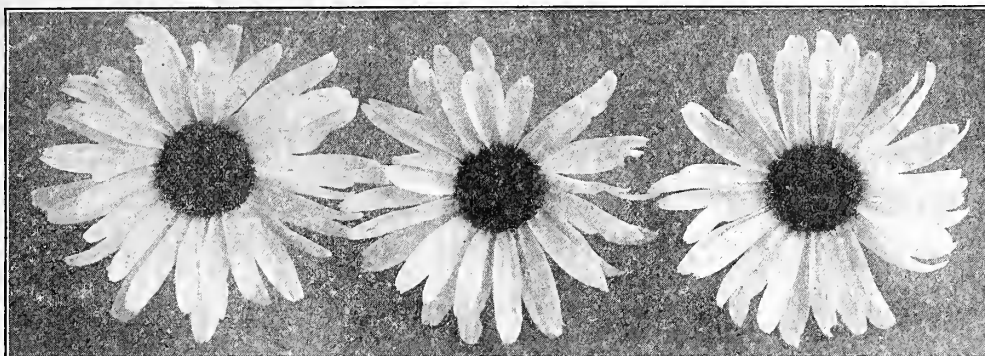
Well known and universally admired, tuberous rooted plants producing exceedingly handsome red and white flowers. A tender perennial. One foot high.

**PERSICUM.** Mixed, of great beauty and many colors. . . . . Pkt. 15c

**GIGANTEUM.** Mixed, characterized by beautiful foliage and profuse bloom; each flower is from two to two and one-half inches long. Very choice. . . . . Pkt. 20c

**CYPRESS VINE.** (*Ipomoea Quamoclit*.) One of the most beautiful climbers; fine, delicate cut foliage, dotted with small scarlet flowers. For covering pillars, trellis work, etc., it is unsurpassed in grace and beauty. Height 12 feet. Tender annual. Mixed color. . . . . Pkt. 5c





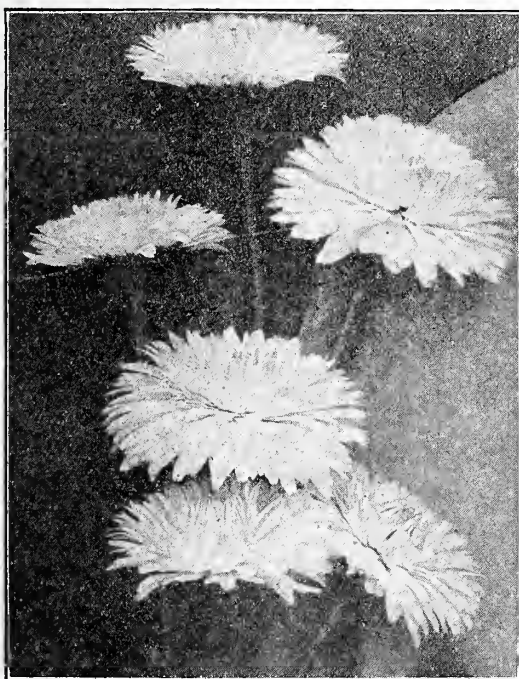
SHASTA DAISY

## DAHLIAS

Dahlias are easy of cultivation, growing freely in most any kind of soil from seed in the spring. Height 4 to 5 feet. Half-hardy annual. Perennial.

**Dahlia.** Finest double mixed.....Pkt. 10c  
**Dahlia.** Finest single mixed.....Pkt. 10c  
 For Dahlia Bulbs see page 70.

**DAHLIA — Hornsvelt's Giant Hybrids Mixed.** This new variety will be found one of our best cut flowers for summer use. It has magnificent long-stemmed, single and semi-double flowers, of immense size and in a great variety of colors. It will bloom freely the first year from seed, but for best results should be started in a box in the house in February and set outdoors when weather is warm.....Pkt. 10c



## DOUBLE DAISY

(Bellis perennis.)

Charming little plants for edging and borders. The flowers are quilled and flat-petaled, white, red, pink and variegated. Not all will come double from the seed, and the single ones should be pulled out. Height 6 inches. Tender perennial.

**Longfellow,** pink; **Snowball,** white; **Double,** mixed; each.....Pkt. 10c

## SHASTA DAISIES

A creation of Luther Burbank, who produced this wonderful flower by constant selecting of the wild species.

These are perennial and when once established will live from year to year, multiply rapidly, and bear abundantly.

**Alaska,** pure white; **California,** pale yellow; each.....Pkt. 15c

**OX-EYED DAISY.** See Chrysanthemum Maximum.

**PARIS DAISY.** See Chrysanthemum Fruitescens.

**DELPHINUM.** See Larkspur.

**DIANTHUS BARBATUS.** See Sweet William.

**DIGITALIS.** See Foxglove.

**DOLICHOS LABLAB.** See Hyacinth Bean.

**EVERLASTING FLOWERS.** Containing all the popular varieties of the "straw flower" class. All kinds mixed.....Pkt. 10c

**FEVERFEW.** (Matricaria capensis.) A free-flowering, half-hardy perennial plant growing 18 inches in height. Seed sown early in the spring in the open ground will produce flowers by fall. The plant throws up numerous stems terminating in clusters of very double pure white flowers three-quarters of an inch in diameter. These are desirable for cut flowers. Plants bloom when grown in pots in a cool room.....Pkt. 10c

**FLAX.** Scarlet. See Linum.

**FOXGLOVE.** (Digitalis.) Showy and useful flowers for the border, flowers borne in tall spikes bell or thimble-shaped of all colors; new plants may be obtained by dividing the roots. Height 2 feet. Hardy perennial. **Mixed colors**.....Pkt. 5c

**FORGET-ME-NOT.** (Myosotis Alpestris.) This beautiful little flower is too well known to require description or recommendation. The delicate blue flowers appear all summer. Height 6 inches. Hardy perennial.....Pkt. 10c



## ESCHSCHOLTZIA

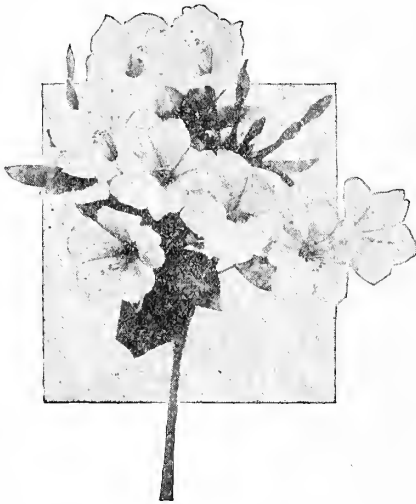
(California Poppy)

A flower attractive in foliage, bud and blossom. One of the most attractive flowers grown. Plants procumbent, forming dense bushy masses, with a succession of flowers from June until after severe frosts. When grown with Dwarf Convolvulus contrasts finely with the dark blue. Height 1 foot. Hardy annual.

**CALIFORNICA.** The original variety.....Pkt. 5c

**EARLY DOUGLASH.** Yellow with golden center.....Pkt. 5c

**MAMMOTH GOLDEN WEST.** Large flowers of orange color shading to yellow at the edge.....Pkt. 5c



## FOUR O'CLOCK

(Marvel of Peru or Mariabilis Jalapa.)

Derives its name from the fact that the flowers open at four o'clock in the afternoon, stay open all night and close about nine in the morning.

A handsome plant for making an attractive display of its many colored flowers from the middle of July until frost. The blossoms are marbled and spotted in the most diversified manner, the same plant producing different colors; some branches will grow flowers of a single color only, while others will have striped or partly colored. The leading colors are red, white and yellow, with stripes and variegations of all three. Height 2 feet. Hardy annual.

Pkt. 5c; oz. 15c

## FUCHSIA

The varieties of Fuchsias are now numbered by hundreds and some are exceedingly beautiful. They are as easily grown from seeds as raised from cuttings, and from seed many improved varieties are obtained. Height 1 to 3 feet.

**Double and Single mixed**.....Pkt. 25c

**GAILLARDIA.** A showy annual, brownish red flowers, bordered with yellow and white, blooming strongly through the season, and until after heavy frosts. Height 18 inches.

**All colors mixed**.....Pkt. 5c

## GERANIUM

(Pelargonium Zonale.)

Probably the Geranium is better known and more universally admired than any other plant known. The constant succession and durability of bloom till frost comes, the brilliancy of the scarlet and other colors, and the exquisite markings of the leaves of some of the varieties render them very desirable for pot culture or bedding. No garden seems complete without a bed of them, and in every collection of conservatory or parlor plants we are sure to find the Geranium. Propagation by seed is the only way to obtain new varieties. Height 1 to 2 feet. Half-hardy perennial.

**Single and Double mixed**.....Pkt. 15c

**GILIA.** Colors azure and light blue, shaded with yellow and white. Their size shape and delicate coloring make them useful for bouquets. In bloom from the first of July till after severe frosts have destroyed most of the other annuals. Height 18 inches. Hardy annual, many colors mixed.

Pkt. 5c

**GOETIA.** A beautiful class of flowers; the plants are of neat, dwarf compact habit. They produce a profusion of rich carmine flowers, bearing same continually from August until frost. Height 1 foot. Hardy annual, mixed.....Pkt. 5c

## GLOXINIA

Perennial greenhouse plants producing rich and beautifully colored flowers. They deserve extensive cultivation. **Hybrids mixed**.....Pkt. 25c  
Gloxinia bulbs are offered on page 70.

**GLOBE AMARANTH.** (Gomphrena Globosa.) An excellent everlasting or immortal; flowers globe-shaped purple, orange and variegated. Retain their shape and color when dried; are also good for cutting as fresh flowers. Height 10 inches. Tender annual. **Mixed**.....Pkt. 5c

**GLYCINE SINENSIS.** See Wisteria.

**GYPHOPHILA.** (Baby's Breath.) Small fragrant flowers, borne on long feathery stems. No flower adds more of light and grace to a bouquet than this, and when once grown will be found indispensable. In bloom through the summer from the first of July until frost. Height 1 foot.

**Paniculata**, pure white, perennial.....Pkt. 5c  
**Elegans**, delicate pink.....Pkt. 5c





## GOURDS

(Useful as well as Ornamental)

A great variety of curiously formed and marked fruit. The vines are of rapid growth and with luxuriant foliage; adapted for covering screens, arbors, etc. Height 10 to 20 feet. Tender annual.

**DIPPER AND SIPHON.** Useful for dipper.  
Pkt. 5c; oz. 15c

**JAPANESE NEST EGG.** White like eggs, does not crack, and is not injured by heat or cold.  
Pkt. 5c; oz. 25c

**SUGAR TROUGH.** With thick tough shell and of great durability. Makes dishes and other utensils for various purposes. . . . . Pkt. 5c; oz. 20c.

**HELIANTHUS GLOBOSUS.** (Sunflower.) An exceedingly double variety of this well-known plant, adapted by its stately growth for a background to the lawn or a screen to hide unsightly places. It is also raised as an absorbent of miasma in damp or ill-drained situations, thus preventing fevers. The flowers are quite attractive. Hardy annual.

**Pistolous Double,** Globe or Dahlia Sunflowers. Flowers large, double and of rich saffron color.

**Stella,** pure golden yellow with black disks.

**Orion,** same as above except petals are twisted like a cactus dahlia. . . . . Pkt. 10c; oz. 20c

**Mammoth Russian.** . . . . Pkt. 5c; oz. 10c

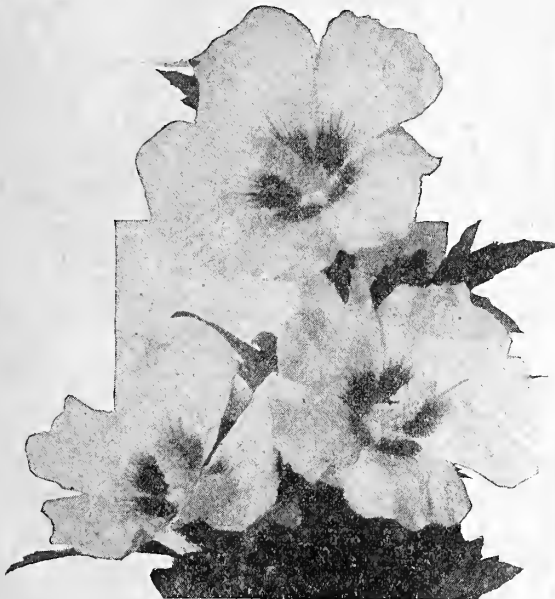
**Red Sunflower.** See Novelties.

**HELICHRYSUM MONSTROSUM.** One of the best immortelles; good shape, size and variety of desirable colors—yellow, sulphur, cream, white, pink, rose, red and crimson. Retain their natural shape very perfectly when dried. In bloom from July until destroyed by frosts. Height 18 inches. Hardy annual.

**Many varieties mixed.** . . . . Pkt. 5c

**HELIOTROPE.** A well-known popular greenhouse plant, fine for bedding, vases or baskets and exquisite for pot culture in winter. Flowers purple, borne in clusters and exceedingly fragrant. Height 1 foot.

**Mixed colors.** . . . . Pkt. 10c



## HIBISCUS OR MALLOW

Shrub-like plants growing from four to six feet high and bearing bright colored flowers varying from three to five inches in diameter. Very hardy and very effective for backgrounds. Hardy perennial. . . . . Pkt. 5c

**HIBISCUS AFRICANUS.** A showy hardy annual, cream color, with rich brown center. Height 2 feet. . . . . Pkt. 5c

**DISH CLOTH OR LUFFA.** A rapid climber, having long green fruit, the inside of which is a fibrous mass, which, when shelled and seeds removed, makes an excellent substitute for a bath sponge.  
Pkt. 5c; oz. 10c

**HERCULES CLUB.** The longest gourd grown.  
Pkt. 5c; oz. 25c

**CALABASH PIPE GOURD.** See Novelties.

**MIXED GOURDS.** All kinds mixed.  
Pkt. 5c; ½-oz. 15c; oz. 25c

## HOLLYHOCKS

(Althea Rosea.)

A great variety of brilliant colors, combining richness and delicacy in a remarkable degree; flowers large and densely double, remaining in bloom for a long time. It is one of the best and most ornamental of the perennials. Height 5 feet. **Separate colors,** double white, pink, maroon, each. . . . . Pkt. 10c  
**Finest prize mixture of double varieties.** . . . Pkt. 10c

**HOLLYHOCK ALLEGHENY.** This is a species that will bloom the first year if started in the house in March and transplanted in May. The petals are fringed and the flowers of different colors. . . Pkt. 10c

**HOLLYHOCK ANNUAL.** Will bloom in August or beginning of September if sown in April. Flowers are single, semi-double and double. Mixed colors.  
Pkt. 10c

**HYACINTH BEAN.** (Dolichos Lablab.) Splendid climbers with abundant clustered spikes of purple and white flowers, which are followed by exceedingly ornamental seed pods. It is of rapid growth and often runs 30 feet in a season. Height 10 to 20 feet. Tender annual. . . . . Pkt. 5c

**ICE PLANT.** (Mesembryanthemum Crystallinum.) Dwarf plant of procumbent or trailing habit, finely adapted for vases, rock work, etc. The surface of the foliage is covered with panicles, resembling crystals of ice glistening in the sun, forming a curious and attractive display. Height 6 inches. Tender annual. . . . . Pkt. 5c

**IPOMOEA QUAMOCLIT.** See Cypress Vine.

**IPOMOEA MEXICANA.** See Moonflower.

**INSECT POWDER PLANT.** See Pyrethrum.

**JAPANESE HOP.** (Humulus japonicus.) A rapid-growing, perfectly hardy, annual climber of the hop family, of the easiest culture and indispensable for covering unsightly objects, or verandas, trellises, etc. Sows itself after the first year. Variegated leaves. . . . . Pkt. 10c

**JOB'S TEAR.** (Coix Lachrymae.) Curious ornamental grass from East India with corn-like leaves and seeds of light slate color, wonderfully lustrous. Valuable for the formation of bouquets, in connection with everlasting flowers and strings of handsome beads are formed from the seeds. Height 3 feet. Hardy annual. . . . . Pkt. 5c

**KUDZU VINE.** See Novelties.

**LANTANA.** Rapid-growing plants; the flowers are borne in Verbena-like heads embracing every shade of pink, purple, orange and white. Half-hardy perennial. Height 3 feet. . . . . Pkt. 10c

**LARKSPUR—Annual.** (*Delphinium Ajacis*.) A fine variety of colors—shades of blue, red and others striped and mottled. The flowers are produced in spikes, which are continually pushing out from the main stem and branches, furnishing abundance of bloom through the season. Height 2 feet.

Double tall, mixed.....Pkt. 5c

Double dwarf, mixed.....Pkt. 5c

**LARKSPUR — Perennial.** (*Delphinium Hybridum*.) A very attractive hardy plant for corners of a yard, also center of flower beds. We furnish seeds of assorted colors.....Pkt. 10c

**LINUM GRANDIFLORUM RUBRUM.** (Scarlet Flax.) Distinguished for the brilliant colored flowers, which are deep crimson with black centers saucer-shaped, and very conspicuous in bed or border. The foliage of the plant is slender and delicate, and the flowers produce very little seed. Height 1½ feet. Hardy annual.....Pkt. 5c

**LOBELIA.** An elegant and useful class of dwarf, plants compact growth, bearing a profusion of delicate flowers. In bloom during summer and autumn. Make a neat and effective border for geranium beds and beds of ornamental plants; pretty for baskets, vases and piazza decorations. Height 6 inches. Blue Crystal Palace. Half-hardy annual..Pkt. 10c

**LOVE IN A MIST.** See *Nigella*.

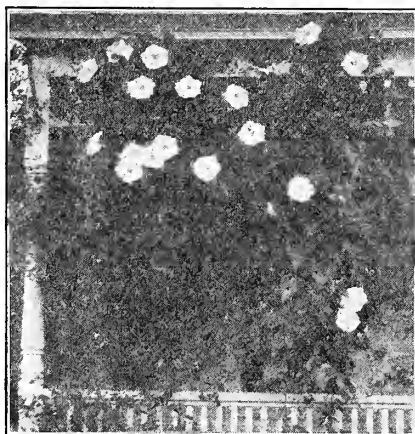
## MARIGOLD

(*Tagetes Patula Nana*.)

A showy plant of compact symmetrical growth, handsome foliage and a profusion of flowers of brilliant colors of yellow and finely variegated and striped with dark rich colors of maroon and brown. Flowers of this variety are about 1-inch in diameter, full double to the center and cover the plant profusely. Height 1-foot. Half-hardy annual.

Dwarf Double, French.....Pkt. 5c

Dwarf Double, African. (*Tagetes erecta nana*).  
Pkt. 5c



MOONFLOWER

**MAURANDIA.** This vine is one of the best for window garden and almost equal to *Smilax* in delicate beauty. It is very hardy, blooms profusely and is very easily grown from seeds and roots, from cuttings.....Pkt. 10c

**MESENBRIANTHEMUM.** See Ice Plant.

**MEXICAN BURNING BUSH.** See Burning Bush.

**MORNING GLORY.** See *Convolvulus*.

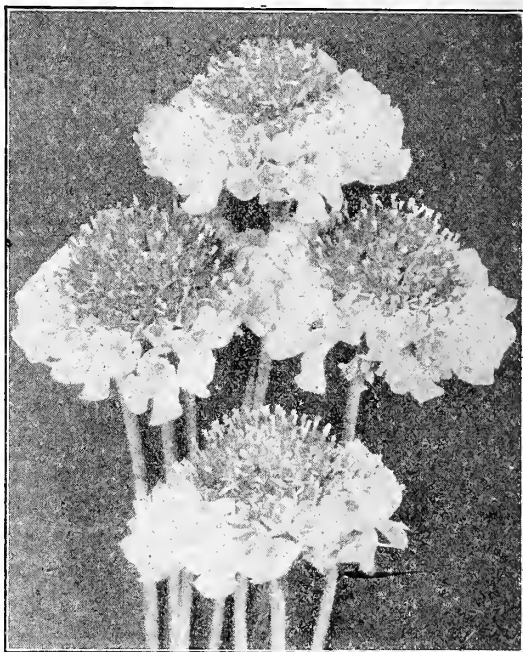
**MIGNONETTE.** (*Reseda odorata*.)

Grandiflora, very fragrant, large flowering.  
Pkt. 5c; oz. 15c

Golden Queen, of golden yellow color.  
Pkt. 5c; oz. 40c

Glant White, of tall, pyramidal growth.  
Pkt. 5c; oz. 40c

Glant Matchett is the popular strain used by florists.  
Pkt. 5c; oz. 40c



## MOURNING BRIDE

(*Scabiosa Atropurpurea*.)

One of the best flowers for bouquets; plants of dwarf habit and compact, the flowers borne upon long, wiry stems. A great variety of colors from white to very dark purple—almost black. In bloom from August till after severe frosts. Height 18 inches. Tender perennial.

Mixed colors.....Pkt. 5c

## MIMULUS

These flowers are remarkable for their rich and beautiful markings and spots; well adapted for vases, pots and baskets, and also open culture in the garden. Height 1-foot. Hardy perennial.

**Moschatus.** Musk plant.....Pkt. 10c

**Tigrinus.** Monkey flower.....Pkt. 10c

## MOONFLOWER

(*Ipomoea Mexicana*.)

The true Moonflower is one of the most vigorous of all the summer climbers; a single plant can be made to cover by August 15, a trellis 20 to 30 feet high and six feet broad, with a dense mass of leaves studded every night or cloudy day with hundreds of beautiful white wax-like flowers 4 to 6 inches in diameter. Height 30 to 50 feet. Tender annual.  
Pkt. 10c

**MOSS ROSE.** See *Portulaca*.

**MYOSOTIS.** See Forget-me-not.



## NASTURTIUMS



### TALL VARIETIES

(*Tropaeolum majus*.)

This well-known annual is the best for trellis and arbor decoration; flowers of a great variety of rich colors striped and spotted with different shades. Is excellent for vases and baskets; also does finely when grown in beds without trellis support; produces an abundance of flowers from the first of July until frost. Height 6 to 10 feet.

**Coccineum.** Bright orange scarlet.

**Heinemanni.** Silky bronze chocolate.

**Pearl.** Creamy white.

**Regellianum.** Brownish violet.

**Schillingi.** Bright yellow with maroon blotches.

**Atropurpureum.** Dark crimson.

**Hemisphaericum.** Straw color, rosy blotched, fine.

**King Theodore.** Crimson, dark-leaved.

**Mixed.** All colors.

Each of the above.....Pkt. 5c; oz. 15c

**NEW FRENCH CHAMELEON.** This new Nasturtium is a most remarkable advance in this brilliant family. We find that in richness and variety of color it surpasses any other strain, and is also unique in bearing flowers of quite distinct coloring on one and the same plant—some clear, deep crimson, others blotched on light ground and others beautifully mottled. This characteristic as well as wonderful richness of the unusual markings has been fixed in both the tall and dwarf forms.....Pkt. 5c; ½-oz. 15c; oz. 25c

**MADAM GUNTER'S HYBRIDS.** A grand strain of tall growth, containing many colors not found in any other mixture.  
Many colors mixed.

Pkt. 5c; ½-oz. 10c; oz. 15c; 2 ozs. 25c

**NEW IVY-LEAVED.** This is the most brilliant and showy variety, differing from all other Nasturtiums in both foliage and flower. The plants are of a strong running growth; leaves are deep, rich, green, veined with silvery white, closely resembling in form and veining those of the hardy English Ivy. The flowers are of the deepest and richest glowing scarlet, comparatively small in size, but most of distinct form. It is also desirable as a trailing vine for planting in hanging baskets, vases, or for winter pot culture in the house. All colors mixed.

Pkt. 5c; ½-oz. 10c; oz. 15c; 2-oz. 25c

**LOBB'S VARIETIES.** (*Tropaeolum Lobbianum*.) These constitute without doubt some of the finest of our annual climbers; they are as easily grown as the common Tall Nasturtiums which they far surpass in remarkable brilliancy of their flowers, and also in the height of vines and rapidity of growth.

Many colors mixed..Pkt. 5c; ½-oz. 10c; oz. 15c

**DWARF VARIETIES.** (*Tropaeolum majus nanum*.) Dwarf Nasturtiums are very desirable for borders along walks, paths, etc. They are in constant bloom. Grow about a foot high.

**Brilliant.** A handsome scarlet.

**King Theodore.** Maroon.

**Lady Bird.** Orange-yellow, red spots.

**Pearl.** Creamy white.

**Ruby King.** A blue tinted red.

**Empress of India.** Dark red, very dark-leaved.

**Purpureum.** Crimson.

**Spotted Varieties.** Mixed.

**Mixed.** All colors.

All of the above.....Pkt. 5c; oz. 15c

**DWARF FRENCH CHAMELEON.** Same as described above amongst the tall varieties, but of the true dwarf habit.

Pkt. 5c; ½-oz. 15c; oz. 25c

### SPECIAL OFFER OF NASTURTIUMS

Six assorted packets, your choice, of any varieties of Nasturtiums for 25 cents, 12 packets for 40 cents.

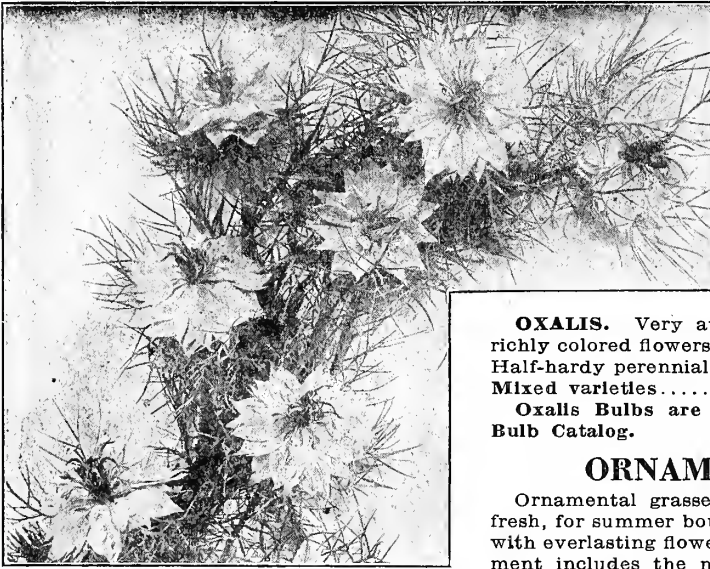
Five one-ounce packets of any Nasturtiums for 50 cents.

**NEMOPHILA.** This popular plant is to be found in almost every garden, and has secured a place in the heart of every lover of flowers. Of dwarf, spreading habit, is well adapted to border or pot culture. The flowers are exquisitely colored, blotched and spotted; they are quite apt to sport an endless variety of shades from black and blue to lighter colors. Height 6 inches. Hardy annual. Mixed colors.....Pkt. 5c

## NICOTIANA AFFINIS

A handsome genius of garden plants of the tobacco family, which are noted for freedom and fragrance of their bloom. Half-hardy annual, 3 feet high. The flowers are white, silver, shaped, and have long tubular corollas. Deserve a place in every garden.....Pkt. 10c

**NICOTIANA SANDERAE.** Introduced a few years ago by one of the leading horticultural firms of England, this remarkable novelty has in an incredibly short time won the admiration of the public, both in America and Europe. The shape of the flower resembles that of the *Nicotina Affinis*, but the flower tube is short and stout. The greatest beauty of it all is the brilliancy of its carmine-red flowers which are produced in the greatest profusion from early May till the close of autumn. The fragrance is not so pronounced as that of the *Nicotina Affinis* but is deliciously sweet. Plant early in spring, same as other hardy plants, and transplant to open ground 2 feet apart when weather is suitable.....Pkt. 15c



### NIGELLA DAMASCENA

(Love in a Mist.)

A showy annual with finely cut foliage and curiously formed flowers of light blue color. The form and color make them very desirable for bouquets. Height 1 foot.

Mixed colors.....Pkt. 5c

**PASSION FLOWER.** (*Passiflora Coerulea*.) A most interesting and well-known order of climbers, bearing singularly beautiful flowers. They are the pride of South America and the West Indies, where the woods are filled with their species, climbing from tree to tree, bearing flowers of striking beauty.....Pkt. 5c

**OXALIS.** Very attractive and beautiful plants, with richly colored flowers, suitable for rock and rustio baskets. Half-hardy perennial. Height 6 inches.

Mixed varieties.....Pkt. 10c

Oxalis Bulbs are ready in September. Ask for our Bulb Catalog.

### ORNAMENTAL GRASSES

Ornamental grasses are very useful for cutting, when fresh, for summer bouquets, and also dry well for working with everlasting flowers for winter bouquets. This assortment includes the most delicate and graceful varieties.

*Gynerium argenteum* (Pampa Grass), forms elegant plumes of striking appearance.....Pkt. 5c

*Lagurus ovatus* (Hare's Tail), very pretty in bouquets.....Pkt. 5c

\**Stipa pennata* (Feather Grass).....Pkt. 5c

Many splendid varieties mixed.....Pkt. 10c

Those varieties which are marked with asterisks (\*) are perennial.



### PETUNIAS

One of the best flowers for a splendid display throughout the season. Beautiful new colors, striped and marked in the most diversified manner. The ease and culture, profuse and continuous bloom, adaption for different ways of growing—indoors and in the garden—render the Petunia one of the most valuable of the annuals and entitle it to a generous share of the space in every garden. In bloom from July to October.

**GIANTS OF CALIFORNIA.** Produce immense large blossoms.....Pkt. 15c

**DOUBLE MIXED.** Saved from the choicest double flowers only.....Pkt. 20c

**STRIPED AND BLOTCHED SINGLE MIXED**.....Pkt. 5c

**SINGLE MIXED**.....Pkt. 5c





## PANSIES

With the exception of the Rose there is no plant which enjoys such universal popularity as does the Pansy. It has a larger range of color than most plants and is a favorite with all. It is a hardy biennial, blooming continuously from spring until fall and if slightly covered will blossom the second year. It is better, however, to resow each year as the flowers the second year are never as fine as the first year. It is very easy to cultivate and no garden, however small, should be without a Pansy bed.

### ORCHID FLOWERED PANSIES

See Novelties

### BARTELDES' GIANT MARKET PANSIES

The imposing five-spotted flowers are from 2½ to 3 inches in diameter, perfectly round in form and borne on long graceful stems, a decided advantage over the old short stemmed sorts. The plants are of compact form, building perfectly round bushes, with strikingly pretty foliage. The beauty of these plants is in their being covered over with flowers of brilliant and rich colors, cannot be surpassed by any other dwarf growing annual.

Pkt. 15c

**SWEET SCENTED.** This lovely new class is the result of a hybridization of the Pansy and the Sweet Violet, retaining the delightful perfume with Pansy bloom 2 inches in diameter, of good substance and in many colors. They include pure white, yellow, black, maroon, orange and lavender, also striped, blotched, etc.....Pkt. 15c

**CASSIER'S NEW GIANT ODIER.** Extra large flowers of the showy and popular Odier type, being all three or five-spotted on backgrounds of rich glowing colors in many distinct shades....Pkt. 15c

### BUGNOT'S VERY LARGE STRAIN MIXED

An extra large five-blotched race; plants vigorous, with short stalks, bearing well above the foliage, immense flowers of fine form and substances. Extra fine.....Pkt. 15

**GERMAN IMPERIAL MIXTURE.** While the giant-flowered are great favorites, they do not carry all shades and colors which are found in our German mixtures. This is the florists' popular strain.....Pkt. 10c; 3 pkts. 25c; ¼-oz. 75c

### TRIMARDEAU. (Giant Pansies.)

White, with dark centers.

Black, King of the Blacks.

Yellow, a beautiful clear color

Blue, azure blue.

Purple, deep, royal purple.

Bronze, a fine golden bronze.

Mixed, many colors.

Each of the above 10c per pkt., the whole collection of seven for 50 cents.

**Good Mixed.** Made up of a great variety of colors. Pkt. 5c; oz. 50c

**PASSION FLOWER.** See page 62.

**PETUNIAS.** See page 62

## PANSY PLANTS

Some people have neither the time nor inclination to raise Pansies from seed. We can furnish fine large flowered Pansy plants in the spring at 50 cents per dozen.

## PHLOX DRUMMONDI

No flower excels this in all the qualities that make it a popular annual. The flowers are brilliant and of varied colors; it blooms profusely and continuously; is one of the last to succumb to the frosts of late October, and is excellent for bouquets. Taking everything into consideration, it should certainly be placed in the light of the half-dozen best flowers for garden decoration. Height 18 inches.  
**Mixed**.....Pkt. 5c; oz. 60c

**PHLOX DRUMMONDI GRANDIFLORA.** Extra large flowering.

**Alba, White**.....Pkt. 10c; oz. \$1.00  
**Star of Quedlinburg.** Star-shaped flowers..Pkt. 10c  
**Mixed**.....Pkt. 10c; oz. 80c

**PHLOX DECUSSATA.** Perennial Phlox.

Pkt. 10c

## PINKS

(Dianthus)

Splendid large flowers of the most brilliant colors and markings; constantly in bloom from July until after severe frosts the first and also the second year. No flower exceeds this genius for a brilliant show of colors through the summer. Height 1-foot.

**Chinensis** (double China), mixed, Pkt. 5c; ¼-oz. 15c; oz. 50c  
**Laciniatus** (double Imperial), mixed, Pkt. 5c; oz. 50c

**Imperialis** (double fringed), mixed, Pkt. 5c; ¼-oz. 25c; oz. 50c

**Heddwigii** (single), mixed.....Pkt. 5c; oz. 75c

**Heddwigii** (double Heddwigii), mixed, Pkt. 5c; oz. \$1.00

**Albus Flore Pleno** (double white).....Pkt. 5c

**Dianthus Plumarius** (perpetual), June Pink, Clove or Grass Pink, hardy and fine for old-fashioned gardens.....Pkt. 5c

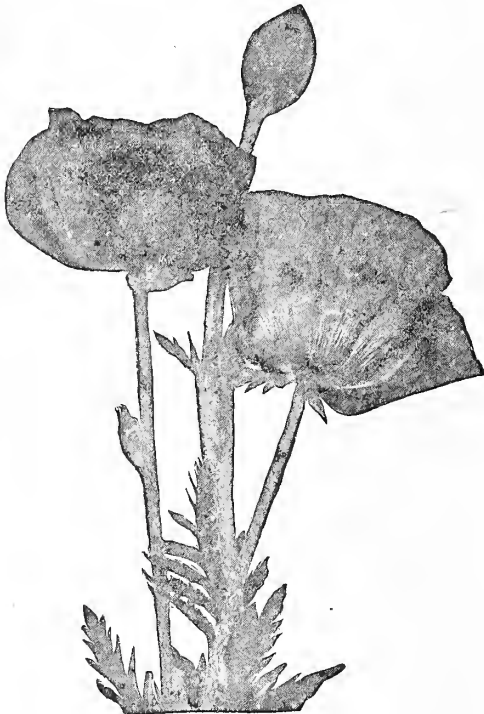
## POPPY

Papaver

The Poppy is one of the old fashioned flowers that is coming black into popular favor. The many brilliant colors, the satiny texture of the flowers and their delicate foliage make them especially desirable for planting in masses. If the flowers are picked early in the morning when the dew is on them they will remain fresh in water all day.

The annual varieties should be sown early in the spring and should not be transplanted. As they bloom for about a week only it is best to make a succession of sowings.

The Oriental Poppy should be sown in the fall but the Iceland will bloom the first year if sown very early in the spring.



**ORIENTAL HYBRID POPPIES.** (Papaver Orientale.) For brilliancy of coloring there is nothing to equal these Oriental Poppies. The flowers are of enormous size, often measuring over six inches in diameter, while the colors range from soft flesh and rose to most brilliant, dazzling scarlet, and richest maroon purple. Their culture is simple as that of the common Garden Poppy. One of their most valuable properties is that they are perfectly hardy perennials, increasing in size and beauty from year to year.....Pkt. 10c

## SINGLE AND DOUBLE MIXED POPPIES

A well-known flower of great profusion. Single and double mixed, a grand collection of annual varieties.....Pkt. 5c; oz. 20c

**FAIRY POPPIES.** The flowers are perfectly double, of large size and magnificent form. In colors the grand large flowers are pure white, glowing scarlet, light lilao, scarlet with white and black, rose and deep maroon. Double mixed. Annual.  
Pkt. 5c

**THE SHIRLEY POPPIES.** (Papaver Rhæas.) They are similar in every way to the wild scarlet Field Poppy of England and the continent, but the range of colors is so varied that scarcely two will be found alike. Annual.....Pkt. 5c

**ICELAND POPPIES.** (Papaver Nudicaule.) The delicate, fragrant flowers are exceedingly beautiful, and with their long stems are suitable for cutting. The plants are perfectly hardy, easily cultivated, and the lovely flowers are in bloom from early summer until fall.

**Hardy Perennial**, blooming the first year from seed.  
Pkt. 10c

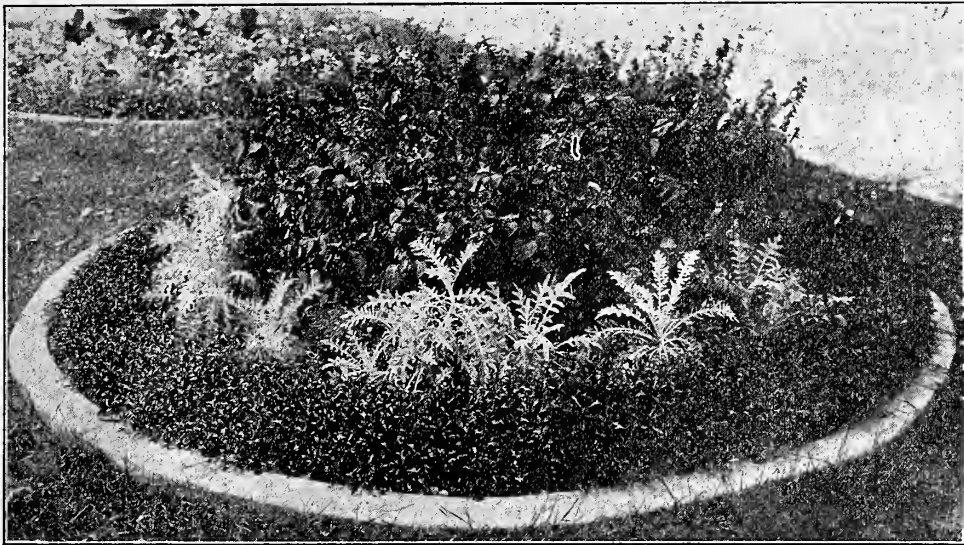
**PORTULACA GRANDIFLORA.** (Moss Rose.)

There are scarcely any flowers in cultivation that make such a dazzling display of beauty as a bed of many-hued, brilliant-colored portulacas. They are in full bloom from about the first of July till killed by frost in the autumn. Plant in open ground after it has become warm in light soil and in a dry situation. After the plant appears withhold water, and if the plants have full exposure to the sun the ground will be covered with the plants and the effect will be beautiful. Tender annual. Height 9 inches.

**Double Rose**, mixed.....Pkt. 10c

**Single.** All colors mixed.....Pkt. 5c





A BED OF SALVIA SPLENDENS WITH BORDER

**PRIMROSE.** (*Primula*.) These are perhaps the most desirable of all house plants. They are in almost constant bloom all winter, and if the plants be transferred to the border they will bloom nearly all summer. Though perennial, few plants flower more continuously and seed should be sown every year. Give them a long time for growth before flowering, and do not force the young plants, but simply protect them from frost and damp and cutting winds. Height 9 inches.

**Obconica** ..... Pkt. 10c  
**Sinensis, mixed** ..... Pkt. 15c

**PYRETHRUM.** (*Insect Powder Plant*.) Practical entomologists have long been looking for some effective, safe and cheap insecticide, and now tell us they have found it in the Persian insect powder. This is the dried and powdered flowers of the *Pyrethrum Roseum* and it is certain death to plant lice, flies, cabbage worms and nearly every form of insect life. It is harmless to man, but when diluted with ten times its bulk of flour kills every cabbage worm or other insect it touches. Height 1-foot.

**Pyrethrum Roseum** ..... Pkt. 10c

**Pyrethrum Aureum.** This is the beautiful bedding plant with golden leaves called "Golden Feather."

Pkt. 10c

**RAGGED SAILOR.** See Bachelor's Button.

**RESEDA ODORATA.** See Mignonette.

**RICINUS.** See Castor Beans.

**SALPIGLOSSIS.** A beautiful annual that deserves to be more widely known; when once grown in the garden, will be one of the first to be chosen for the next year. Flowers of the richest colors, blue, crimson, yellow, purple, scarlet, etc., with texture like rich velvet, each petal beautifully penciled. Splendid for bouquets. Height 2 feet.

**Mixed colors** ..... Pkt. 5c

**SCABIOSA ATROPURPUREA.** (*Mourning Bride*.) One of the best flowers for bouquets; plants of dwarf habit and compact, the flowers borne upon long, wiry stems. A great variety of colors from white to very dark purple—almost black. In bloom from August till after severe frosts. Height 18 inches. Tender perennial.

**Mixed colors** ..... Pkt. 5c

## SALVIA SPLENDENS

(Scarlet Sage.)

The *Salvia*, or Flowering Sage, is a very ornamental plant, flowering in spikes and continues in bloom in the open ground until frost, when the plant can be removed to the greenhouse and will continue in bloom a long time. This variety is of the dwarf habit, and the spikes of flowers are not so large as some of the greenhouse sorts. Height 1½ feet. Tender annual..... Pkt. 5c

**SCHIZANTHUS.** This annual should be more widely cultivated. Flowers different shades of blue, curiously cut and delicately spotted; laced with crimson, white and yellow, etc. Adapted for garden and indoor culture. Excellent for bouquets. Height 18 inches.

**Mixed colors** ..... Pkt. 5c

**SENSITIVE PLANT.** (*Mimosa Pudica*.) A curious plant manifesting sensations to the touch of any object that jars or stings the leaves or branches, stalks immediately drooping or folding together, as if possessed with life and an over supply of nerves, affording a source of amusement for the little and large folks. Height 1-foot. Tender annual..... Pkt. 5c

**SILENE ARMERIA.** See Catchfly.

**SMILAX.** (*Myrsiphyllum Asparagoides*.) No climbing plant in cultivation surpasses this for graceful beauty of its foliage. In cut flowers and for wreaths, etc., it is indispensable to florists. Height 10 inches. Tender annual. . Pkt 10c; oz. 50c

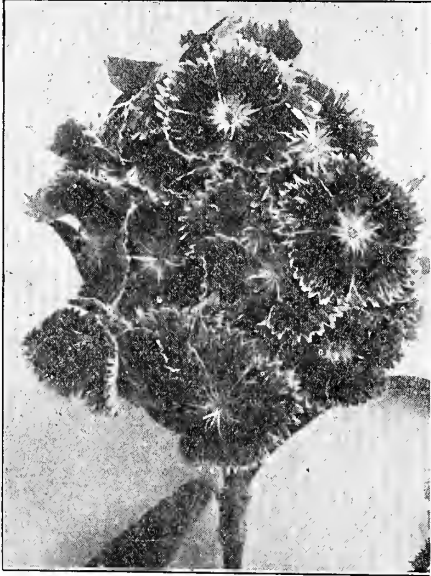
**STOKESIA CYANEA.** (*Corn Flower Aster*.) This is one of the most charming and beautiful native hardy plants. The plant grows from 18 to 20 inches high bearing freely from early July until frost, its handsome lavender-blue *Centaurea*-like blossoms measuring from four to five inches across. We do not hesitate to state that *Stokesia* is one of the most valuable and desirable hardy plants offered.

Pkt. 10c

**SUNFLOWERS.** See *Helianthus*.

**SWAN RIVER DAISY.** See *Brachycome*.

**SWEET SULTAN.** (*Centaurea Moschata*.) A handsome annual with fragrant flowers, borne on long, slender stems. Their fragrance and habit of growth adapt them finely for bouquets. In bloom from July until October. Height 2 feet... Pkt. 5c



## SWEET WILLIAM

(*Dianthus Barbatus*)

The improved varieties of this popular flower are very beautiful, and should find a place in every garden. A great variety of rich flowers, eyed and variegated with other shades forming large trusses of blossoms, remaining a long time in bloom. A bed of Sweet Williams is very attractive the last of June and the first of July, a time when but few other flowers are in bloom. Hardy perennial. Height 18 inches.

Single mixed..... Pkt. 5c

Double mixed..... Pkt. 10c

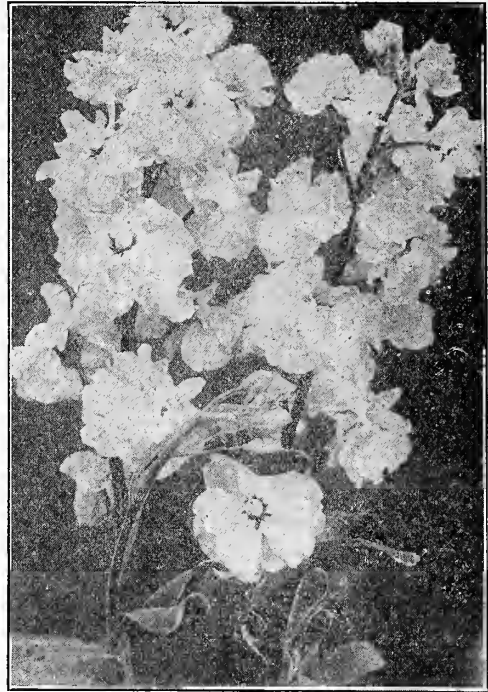
**TASSEL FLOWER.** See *Cacalia*.

**THUNBERGIA ALATUM.** (Climbing Black-eyed Susan.) A trailing or climbing plant with flowers of various shades of yellow and white, having a dark center, or eyes. Particularly adapted for vases or hanging baskets, for plaza decorations, etc. Height 4 feet..... Pkt. 10c

**TROPAEOLUM CANARIENSE.** See Canary Bird Flower.

**VIOLET.** (*Viola Odorata*.) The violet should not be wanting in any garden on account of its fragrance and early appearance. A single flower will perfume the whole room. Succeeds best in a shady place, and can easily be increased by dividing the roots. The violet is an emblem of faithfulness, Hardy perennial. Height 4 inches..... Pkt. 10c

**WILD GARDEN FLOWER.** (A mixture of all kinds of flower seeds.) Anyone who has planted and cultivated flowers in neatly laid out beds and borders is aware of the labor and constant care and attention required to produce the desired effect. To those who cannot give it this care, "The Wild Flower Garden" presents a substitute which for its unusual and varied cheapness, and the small amount of labor necessary for its construction, has no equal. The seeds we offer for the "Wild Flower Garden" are a mixture of over 150 different varieties, and being mixed, can be offered at a much cheaper price than when sold in separate packages. No one not having such a bed can form an idea of its beauty, the different seasons of bloom insuring something new almost every day..... Large pkt. 10c; ¼-oz. 15c; ½-oz. 25c



## TEN WEEKS STOCKS

(*Cherianthus Matthiola*)

Cut and Come Again

Plants grow about one foot high, making a compact bush covered with splendid spikes; in bloom from July till frost. This seed is of our own importation from the most celebrated German growers of these flowers, saved only from the selected pot plants, and will produce the largest proportion possible of large double flowers, in the most brilliant colors and varieties. Half-hardy annual. Height 1-foot.

**Dwarf German Double, mixed colors,**

Pkt. 10c; ¼-oz. 75c

Single, mixed..... Pkt. 10c; ¼-oz. 60c

**VERBENA.** The most popular bedding plant grown from seed. The fine varieties of colors with stripes and markings of different shades, profuse and long continued bloom, and excellent for bouquets, making them one of the most desirable annuals in the catalog for general culture. Grown from the seeds, the plants will bloom more profusely than those produced from cuttings.

**Mammoth Verbenas** in the following colors:

White, pink, purple, blue, scarlet, each.. Pkt. 10c

Mixed colors..... Pkt. 5c; ¼-oz. 25c; oz. 75c



**VINCA.** If seed is sown early the plants will bloom the first summer. They can be taken up in the fall and kept in the house throughout the winter.....Mixed colors, pkt. 5c

**WALL FLOWER.** (*Cherianthus Cherri fl pl.*) The massive spikes of the Wall Flower are very conspicuous in beds and borders, and are very useful in making bouquets. They are deliciously fragrant, perfectly double and combine many shades of color—the orange, purple and chocolate predominating. Height 18 inches. Tender perennial.

**Double, mixed**.....Pkt. 10c  
**Single, mixed**.....Pkt. 5c

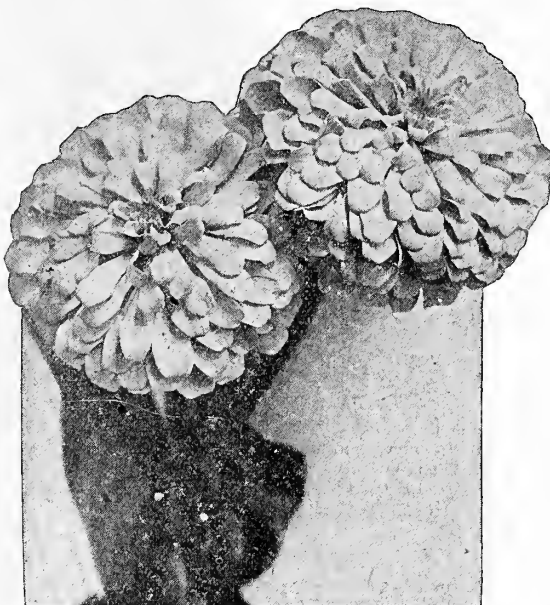
**WHITLAVA GRANDI-FLORA.** An elegant annual with delicate foliage and a drooping cluster of rich dark blue and white bell-shaped flowers. Is fine for baskets and vases and for piazza decoration is one of the best, flourishing well in partly shaded situation. Height, 1 foot.....Pkt. 10c

**WISTARIA VINES**

(*Glycine Sinensis.*) One of the quickest growing climbers, of fine, bright foliage, producing bunches of rose lilac flowers in great abundance during spring. If once started, it will live for years. Hardy perennial. Height 20 feet. Pkt. 10c

**XERANTHEMUM.**

A popular flower of the immortelle class, blooming freely in common soil. Plant is of compact habit with flowers borne on long stems. Colors: white, purple, yellow and light blue. Hardy annual. Height 1-foot. Mixed.....Pkt. 5c



ZINNIA ELEGANS, DOUBLE

**Zinnia Elegans  
Flore Pleno**

Very few flowers have such a long period of popularity as has this old-fashioned Zinnia.

Fine, large flowers, of great variety of colors—red, rose, crimson, scarlet, purple, orange, white and yellow; the flowers are full double as a Dahlia, remaining in bloom from July till after frost. Make a dense hedge, covered with bloom. Height 2 feet. Half-hardy annual.

**DOUBLE VARIETY MIXED.** This is made up of the best and showiest double varieties. Pkt. 5c

**NEW ZEBRA.** Striped like the animals of distant lands, the name of which it has. Pkt. 10c

**NEW MINIATURE ZINNIA.** The most dainty and ornamental miniature Zinnia in existence. It is of truly Lilliputian growth, the plants growing from 3 to 4 inches in height only. At the same time these pretty little plants display a perfection in leaves, flowers and growth generally not often met with in this class of the Zinnia.

The mixture which we offer to our customers this year contains all the popular colors that can be found amongst the tall Zinnias, and the profusion of the blossoms make it an exceedingly showy variety in every garden.

Indispensable for borders around small flower beds, where larger plants would spoil symmetrical forms. The plants themselves are splendidly adapted for bedding purposes, as they stand transplanting readily, and when in bloom some beautiful beds of finest color combinations can be created.

**Mixed, colors**.....Pkt. 10c

**SPECIALS**

Include at least one of these in your order. It is money well spent.

**MIXED CLIMBERS.** Includes Nasturtiums, Sweet Peas, Japanese Hops, Cypress Vine, etc., just what you want to cover an old fence, stumps, trellises, etc.....Pkt. 10c; ½-oz. 25c

**EVERLASTING FLOWERS MIXED.** All the popular Everlastings. You cut them when in bloom, and they keep all winter.....Pkt. 10c

**NASTURTIUMS.** We give 6 packets of any kind for 25c; 12 packets for 40c. Your choice from page 61.

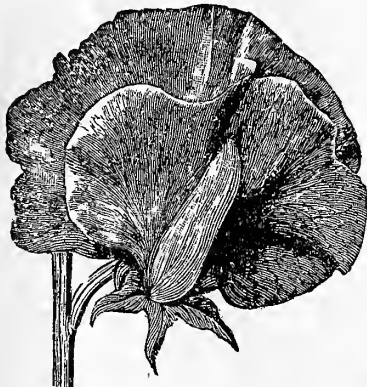
**PANSIES.** Seven of the finest giant-flowered Pansies, one packet each for only 50c.

**SWEET PEAS.** Six separate packets for 25c; 12 packets for 40c; three 1-ounce packages for 25c. Your choice from pages 68, 69 and 70.

**SUMMER FLOWERING BULBS.** Order a few Gladioli, Tuberoses or Caladiums and you'll not regret it. Every August we issue a Fall Bulb Catalog. If you have not been receiving it, write for it next fall and set out a few Hyacinths and Tulips.

## SWEET PEAS

We are headquarters for strictly high-grade Sweet Pea Seed. Our growers give special attention to selecting and cleaning. We have orders from all parts of the United States for our selected strains, which are furnished at prices within the reach of all and as low as the ordinary stocks are priced by many.



**CULTURE.** The Sweet Pea delights in a soil inclined to be clayey, and as the little beauty is a gross feeder, a good supply of well-rotted manure should be mixed with the ground. Fall is the best season to prepare the soil. A good many failures are caused by manuring in the spring, for the reason that all pea vines like a moist ground, and the heat originated by the manure combined with the heat from the sun is too much for the young vines, which turn yellow and die. The best season to sow the seed is as soon in the spring as the ground can be worked. Late sowing produces rank growth, but few flowers. Dig a trench a foot deep by 16 or 18 inches wide and mix in it 6 inches of top soil with old manure. In this plant your seed in two rows, dropping one every inch or two; then cover with two inches of soil, gradually filling the trench as they grow. One side has to be a little lower to allow the surplus water to drain off. The flowers must be picked every day if you want them to bloom through the summer. Bone dust and nitrate of soda will hasten the time of flowering.

**Sweet Peas Up to Date, by Hutchins.** A complete treatise on Sweet Pea culture. 10 cents postpaid

### NEW SPENCER SWEET PEAS

#### WHITE

|   | Pkt.   | ½ Oz.  | Oz.    |
|---|--------|--------|--------|
| <b>King White.</b> Large pure white, of excellent form. Best of the whites.....   | \$0.10 | \$0.30 | \$0.50 |
| <b>Etta Dyke.</b> Immense frilled white flowers.....  | .05    | .15    | .25    |
| <b>White Spencer.</b> The white flowers are extremely large and beautiful. The bold standard is crinkled and fluted and its wavy leaves are so folded that the keel is almost hidden. The flowers are borne three and four to the stem and are uniformly well placed..... | .05    | .15    | .25    |
| <b>Princess Katherine.</b> A black-seeded white variety, generally a tinge of pink..  | .05    | .15    | .25    |
| <b>Nora Unwin.</b> This charming variety takes its place easily in the front rank of pure white, the flower being bold and wavy.....  | .05    | .15    | .20    |

#### PINK

|  |     |     |     |
|--|-----|-----|-----|
| <b>True Countess Spencer.</b> Soft rose pink, slightly darker edges.....                       | .05 | .15 | .25 |
| <b>Duplex Spencer.</b> Large, wavy, cream pink with double or duplex standards....             | .10 | .30 | .50 |
| <b>Decorator.</b> Charming shade of old rose; beautifully frilled, immense flowers...          | .05 | .25 | .40 |
| <b>Hercules.</b> Giant rosy pink, edges slightly darker. Usually four flowers to a stem.....   | .10 | .30 | .50 |
| <b>Illuminator.</b> Rich cerise salmon. One of the prettiest.....                              | .10 | .30 | .50 |
| <b>Sterling Stent.</b> A deep salmon. Most advanced Spencer type.....                          | .10 | .30 | .50 |
| <b>Helen Lewis.</b> Intense rich crimson orange. The flowers are truly of a gigantic size..... | .05 | .15 | .20 |
| <b>Gladys Unwin.</b> A bold flower of a lovely light pink color.....                           | .05 | .15 | .20 |

#### PINK AND WHITE

|   |     |     |     |
|---|-----|-----|-----|
| <b>Dainty Spencer.</b> White with rose-pink edges, very attractive..... | .10 | .30 | .50 |
| <b>Blanche Ferry Spencer.</b> Light pink standard with white wings..... | .10 | .30 | .50 |

#### DELICATE ROSE AND BLUSH PINK

|  |     |     |     |
|--|-----|-----|-----|
| <b>Apple Blossom Spencer.</b> Very large, standard very bright rose, wings primrose with a flush of rose tint..... | .10 | .30 | .50 |
| <b>Elfrida Pearson.</b> Light pink or white, edged and shaded.....   | .10 | .30 | .50 |

#### CREAM GROUNDS—TINTED

|   |     |     |     |
|---|-----|-----|-----|
| <b>Mrs. C. W. Breadmore.</b> Rose-pink margined on a ground of primrose.....  | .10 | .30 | .50 |
| <b>Mrs. Hugh Dickson.</b> Rich pinkish apricot on a cream background. Most reliable.....  | .05 | .15 | .25 |
| <b>Mrs. Routzahn Spencer.</b> It is of immense size, wavy edges, and its long stout stems bear uniformly four blossoms. The color is a beautiful blending of soft straw color, tinted with blush pink and shading to apricot and rose at the edges..... | .05 | .15 | .25 |
| <b>Queen Victoria.</b> Deep primrose flushed with pale rose. Well waved.....  | .10 | .30 | .50 |

#### YELLOW

|  |     |     |     |
|--|-----|-----|-----|
| <b>Clara Curtis.</b> Deep cream, best waved, generally four flowers to a stem.....   | .05 | .15 | .25 |
| <b>Primrose Spencer.</b> The flowers are well placed, three to four on strong, thick stems. The color is a pronounced primrose or creamy yellow throughout both standards and wings. It is equal in richness of color to The Hon. Mrs. E. Kenyon, which it outranks both in form and size..... | .05 | .20 | .30 |



## SWEET PEAS—SPENCER VARIETIES—Continued

### RED SHADES

|  | Pkt. | ½ Oz. | Oz. |
|--|------|-------|-----|
| <b>Maud Holmes.</b> Intense scarlet-crimson. Perfectly sunproof, of immense size.  | .05  | .15   | .25 |
| <b>Fiery Cross.</b> The most sensational and remarkable introduction of recent years. The color is a fire-red or orange-scarlet. Flowers beautifully waved and fluted, and usually three or four to stem.  | .15  | .85   | ... |
| <b>King Edward Spencer.</b> The enormous flowers are uniformly waved and crinkled to a pronounced degree. The unusually large drooping wings—one and three-eighths inches wide—make the flower appear truly gigantic. The color is dark red and is the nearest approach in color to the popular King Edward VII. | .05  | .15   | .25 |
| <b>Thomas Stevenson.</b> A rich flaming orange-scarlet, beautifully waved  | .10  | .30   | .50 |
| <b>Geo. Herbert.</b> A large Spencer, rose-crimson suffused with magenta   | .05  | .15   | .25 |
| <b>Rosabelle.</b> Splendid deep rose, of immense flowers with white at base of standard  | .05  | .25   | .40 |
| <b>Scarlet Emperor.</b> The largest clear scarlet. Finely frilled, sunproof flowers  | .10  | .35   | .60 |
| <b>John Ingman.</b> Frilled rich rose-red  | .05  | .15   | .25 |
| <b>E. J. Castle.</b> Rich carmine rose with salmon shading in the standard   | .05  | .15   | .25 |

### MAROON

|   |     |     |     |
|---|-----|-----|-----|
| <b>Black Knight Spencer.</b> The flowers are very dark color and beautifully waved and crinkled, both standard and wings. The stems are thick and long and carry well either three or four fine blossoms. | .05 | .20 | .30 |
| <b>Othello Spencer.</b> Flowers very deep maroon, very large and wavy with drooping wings. It is a strong growing and free blooming plant.  | .05 | .20 | .30 |
| <b>Nubian Spencer.</b> Fine chocolate-maroon. Largest and darkest of the maroon varieties   | .10 | .35 | .60 |

### LAVENDER SHADES

|   |     |     |     |
|---|-----|-----|-----|
| <b>Princess Alice Spencer.</b> A lovely shade of lavender, strong, vigorous grower, three and four flowers on a stem. The least sportive and best one of this color yet produced. | .05 | .15 | .25 |
| <b>Alfred Watkins.</b> A pure, clear, beautifully waved lavender, producing four flowers on a stem  | .10 | .35 | .60 |
| <b>Florence Nightingale.</b> Charming soft, rich lavender, enlivened by a faint sheen of pink   | .10 | .30 | .50 |
| <b>Asta Ohn.</b> Soft pinkish lavender self. Very large and wavy  | .10 | .30 | .50 |
| <b>Flora Norton Spencer.</b> A splendid, large, waved clear lavender  | .10 | .30 | .50 |

### BLUE AND LAVENDER SHADES

|   |     |     |     |
|---|-----|-----|-----|
| <b>Afterglow.</b> A distinct and attractive coloring. Base of standard bright blue, shading to rosy amethyst, with wings of electric blue   | .10 | .35 | .60 |
| <b>Wedgewood.</b> A unique shade of China blue. A splendid novelty  | .10 | .35 | .60 |
| <b>Royal Purple.</b> Rich royal purple. A distinct new color; immense size  | .10 | .35 | .60 |
| <b>Captain of the Blues Spencer.</b> The flowers are of immense size and always well waved and crinkled. The standard is purplish-maroon, the wings bluish-purple, showing veins of rosy purple | .10 | .30 | .50 |

### VARIEGATED AND STRIPED

|  |     |     |     |
|--|-----|-----|-----|
| <b>Senator Spencer.</b> Chocolate and seal brown striped, flaked and mottled on ivory white  | .05 | .15 | .25 |
| <b>Gaiety Spencer.</b> A fine flower striped with rosy magenta, usually three flowers on a stem. This is a decidedly bright and pleasing variety | .05 | .15 | .25 |
| <b>Mrs. Joseph Chamberlain.</b> A clear rose flaked on white   | .10 | .30 | .50 |

## SPENCER VARIETIES

### MIXTURES

**Spencer Named Varieties, Mixed.** Consists of above distinct colors, including some of the higher priced varieties. This blend will satisfy the most critical planter. Pkt. 5c; ½ oz. 15c; oz. 25c; 2 oz. 40c; ¼ lb. 75c; ½ lb. \$1.25; lb. \$2.25.

**Spencer Hybrids, Mixed.** While this blend is made up of distinct colors, it consists of such varieties that we are long on and does not contain any of the high priced kinds. Pkt. 5c; ½ oz. 10c; oz. 15c; 2 oz. 25c; ¼ lb. 40c; ½ lb. 75c; lb. \$1.25.

## SWEET PEAS IN MIXTURES



Our "Columbine" Grade, Mixed. Nothing better in mixture of varieties and should not be compared with ordinary mixtures on the market. We mix in all our choice varieties. Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.25.

**Light Colors Only.** Mixed from named varieties. Pkt. 5c; oz. 10c; ¼ lb. 35c.

**Red, White and Blue Mixture.** Consists of Salopian, Blanche Burpee and Navy Blue mixture. Try an ounce at least. Pkt. 5c; oz. 10c; ¼ lb. 35c.

**Eckford's Fine Mixed.** Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.15.

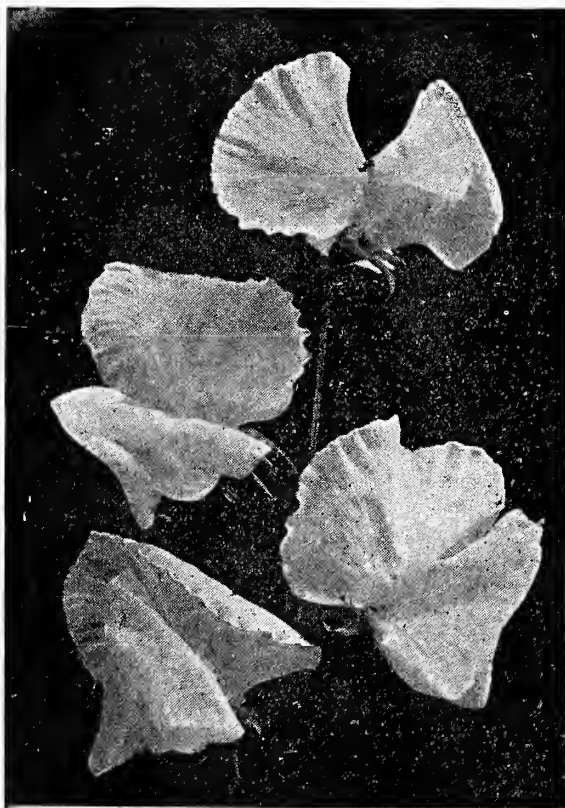
## SWEET PEAS—Continued.

### SWEET PEAS—STANDARD VARIETIES

**PRICES:** 5c per packet; 6 packets for 25c. 10c per ounce; ¼ lb. 40c; 1 lb. \$1.35. Postpaid, unless noted.

Varieties marked (\*) are considered best of their class.

For best results Inoculate Sweet Pea Seed with Farmogerm. See page 104.



#### BLUE AND PURPLE

**Captain of the Blues.** Bright purple hue.

**\*Navy Blue.** The large flowers are of a rich violet purple with the effects of a dark navy blue.

**\*Flora Norton.** Bright, clear blue with tint of purple; open form.

**\*Mrs. Walter Wright.** Rosy purple, self-colored, large shell shaped. Pkt. 5c; oz. 20c; ¼ lb. 50c.

#### DWARF SWEET PEAS—Cupld

Ten inches high. A dwarf variety that is suitable for pot culture, hanging baskets, etc. Blossoms are smaller than ordinary tall varieties. Oz. 10c; pkt. 5c.

**White Cupld.** Pure white blossoms.

**Pink Cupld.** Clear soft pink standard, white wings.

**Mixed Cupld.** Contains many colors.

#### BUSH SWEET PEAS

(Mixed)

A distinct type of bush habit (not dwarf like Cupid) with blossoms much the same as tall varieties but shorter stems. Oz. 10c; 4 oz. 35c; pkt. 5c.

For best results Inoculate Sweet Pea Seed with FARMOGERM—See page 104.

#### WHITE

**Emilly Henderson.** A persistent bloomer.

**\*Blanche Burpee.** A splendid pure white variety.

**Sadie Burpee.** Hooded form.

**\*Dorothy Eckford.** The largest and best flower.

#### SCARLET

**\*King Edward VII.** The best of all red shades; large, bright scarlet.

**\*Queen Alexandra.** Bright scarlet, medium large flowers, holding its color well. Semi-hooded form.

#### PINK

**\*Janet Scott.** Soft pink, large hooded flowers.

**\*Miss Willmott.** Large orange pink flowers, strong and vigorous.

**Katherine Tracy.** A soft but brilliant pink.

**Lovely.** A delicate shell tinged with yellow, often 4 flowers on a stem.

**Prima Donna.** A lovely shade of soft pink, very vigorous, usually 4 blossoms to a stem.

**\*Henry Eckford.** Almost a clear orange, medium large; open form. It is liable to burn in the sun and should be protected for finest blossoms.

#### MAROON

**\*Othello.** Deep maroon and of a rich velvety effect.

**Black Knight.** Very deep maroon, an improvement on Boreatton.

#### YELLOW

**\*Hon. Mrs. E. Kenyon.** A fine, large, clear primrose.

**Mrs. Eckford.** Beautiful shade of light primrose. Very vigorous grower.

#### PINK AND WHITE

**Early Blanche Ferry.** A good bloomer.

#### ROSE

**\*Prince of Wales.** Deep rose, beautifully hooded; an improved Her Majesty.

**\*Lord Roseberry.** Bright magenta rose with veins of deeper shade; large size and hooded form.

#### VARIEGATED AND STRIPED

**\*Helen Pierce.** Blue mottled on pure white.

**America.** Scarlet, striped on white. Large open flowers.

#### LAVENDER AND LIGHT BLUE

**New Countess.** Delicate lavender.

**\*Lady Grisell Hamilton.** Very large flower with long stems, standard lavender, wings azure blue.

#### DOUBLE SWEET PEAS

It has been a difficult task by hybridization and selection to change the habit of the Sweet Pea to the double form, and much remains to be done. The result at best is really semi-double flowers. The best varieties we have will not produce more than half-doubles, the others remaining of the usual single type. We furnish them mixed. Oz. 10c; 4 oz. 35c; pkt. 5c.

#### EVERLASTING PEAS

A perennial climber, producing a succession of white, rose and purple blossoms in clusters. Suitable for trellises, arbors, etc. Hardy perennial. Height, 10 feet. Mixed. Oz. 35c; pkt. 5c.



## SUMMER FLOWERING BULBS

In planting beds always begin by outside row and leave a space between plants and edge of bed of half the distance plants are to be set apart in the bed. If plants are to be set 6 inches apart leave a space 3 inches wide. Square beds will require same number of bulbs or plants as circular beds if its diameter is same length as one side of the square. To find out number of plants needed for an oval bed measure the length and breadth; divide the total by 2, and this will give you the diameter of a circular bed  $6+10=16\div2=8$  ft. Find out in the following table the number of plants required for a bed of 8 ft. diameter at 6 or 12 inches apart, and that will give you number of plants required for your oval bed 6 by 10 ft.

### NUMBER OF PLANTS FOR CIRCULAR BEDS

|                                      |            |                                       |            |
|--------------------------------------|------------|---------------------------------------|------------|
| 3 ft. diameter, 6 inches apart.....  | 28 plants  | 10 ft. diameter, 6 inches apart.....  | 320 plants |
| 3 ft. diameter, 12 inches apart..... | 7 plants   | 10 ft. diameter, 12 inches apart..... | 80 plants  |
| 5 ft. diameter, 6 inches apart.....  | 80 plants  | 10 ft. diameter, 18 inches apart..... | 36 plants  |
| 5 ft. diameter, 12 inches apart..... | 20 plants  | 10 ft. diameter, 24 inches apart..... | 20 plants  |
| 6 ft. diameter, 6 inches apart.....  | 112 plants | 14 ft. diameter, 6 inches apart.....  | 612 plants |
| 6 ft. diameter, 12 inches apart..... | 28 plants  | 14 ft. diameter, 12 inches apart..... | 153 plants |
| 8 ft. diameter, 6 inches apart.....  | 200 plants | 14 ft. diameter, 18 inches apart..... | 68 plants  |
| 8 ft. diameter, 12 inches apart..... | 50 plants  | 14 ft. diameter, 24 inches apart..... | 39 plants  |

See Novelties on Page 11.



AMARYLLIS

**Belladonna Major.** Mixed. The best for forcing. Large bulbs. 25c each.

### AMARYLLIS

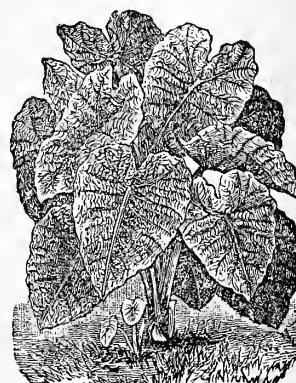
Beautiful flowering bulbs of easy culture and very ornamental. Good for indoor or outdoor culture. Bulbs should be taken up in the fall if planted outdoors.

**Johnsonl.** An old favorite, producing immense trumpet-shaped crimson flowers, each petal of which bears a broad white stripe. Extra large bulbs, 50c each; three for \$1.25.

**Formosissima.** Jacobean Lily. Crimson, blooming early in summer. Each, 20c; 3 for 50c

### CALADIUMS

Perhaps better known as Elephant's Ear. A very effective plant for outdoor planting, where a tropical appearance is desired. The leaves often attain a length of 3 feet and  $1\frac{1}{2}$  feet wide. With a little care they grow to enormous proportions. Good bulbs, 20c; 3 for 50c.



CALADIUM

## CANNAS

A round bed 7 feet in diameter, requires 19 plants and one of 10 feet requires 36 plants.

The Cannas are among the most beautiful bedding plants. They have long been great favorites, but since the introduction of many new varieties their value has been greatly increased by adding to the already attractive foliage large flowers of the most brilliant colors, so that they are now indispensable. No plant is better adapted to our climate, and nothing costing so little excels them for masses of beautiful foliage, as well as the abundance of dazzling blooms in many shades. Plant outdoors about the middle of May if weather is warm and settled, setting the plants 18 inches apart each way, and the tallest varieties in center of bed. Do not water too freely until well started, then they should have an abundance.

Prices, 15c each; 3 for 40c; the full collection \$2.00. Height 3 to 6 feet.

### VARIETIES WITH GREEN FOLIAGE

**Maros.** Flowers large, nearly pure white. Height 3 to 4 feet.

**Italia.** Flowers large, nearly orchid. Vermilion flecked with gold. Height 3 to 4 feet.

**Johanna Kausleiter.** Flowers cream, flecked with pink. Height 3 to 4 feet.

**Mrs. A. F. Conard.** Flowers large, light pink. Height 3 to 4 feet.

**Prince Weld.** Flowers orchid, scarlet red. Height 5 to 6 feet.

**Burbank.** Flowers orchid. Yellow with crimson spots. Height 3 to 4 feet.

**Westgrove.** Moderate large flowers. Coral pink. Height 3 to 4 feet.

**Moonlight.** Large number of small creamy white flowers. Strong grower. Height 3 to 4 feet.



CANNAS

## CANNAS—Continued

### VARIETIES WITH GREEN FOLIAGE

**Louisiana.** Orchid flowered, large, vivid crimson. Strong grower and prolific bloomer. Height 5 to 6 feet.

**Allemania.** Large flower. Brilliant Orange. Height 5 to 6 feet.

**Julius Koch.** The darkest red of all. Large flower. Height 3 to 5 feet.

**Richard Wallace.** Light canary yellow. Height 3 to 4 feet.

**Venus.** Rosy-pink with border of creamy yellow. Height 3 to 4 feet.

**Half-Dollar Collection.** Six fine yellows.

**One Dollar Collection.** Twelve favorites comprising Pennsylvania, Joliet, Atlanta and Pillar of Fire, all red; Indiana and Wyoming, orange colored; Austria and Burbank, nice yellow; Allemania and Flambeau, vermilion-orange and yellow; Musafolia and King of Bronzes, bronze-leaved cannas.

**Unnamed Varieties.** Mixed, each 10c; 3 for 25c; 12 for 80c.

### VARIETIES WITH BRONZE FOLIAGE

**David Harum.** Flowers fiery orange. Height 4 to 5 feet.

**Shenandoah.** Large salmon colored flowers. Height 3 to 4 feet.

**King Humbert.** Fine orange scarlet, flaked with carmine. Height 3½ feet.

**William Saunders.** Red flowers, streaked with orange. Height 3½ feet.

**Wyoming.** Orange colored; true orchid shaped. Height 4 to 5 feet.



CALLA LILY

### CALLA LILIES

This old favorite is always "in style" and a flower that should be in every plant collection. Our bulbs are the true California grown, extra large and vigorous. Order early. We cannot promise to have bulbs in good condition after April 1. Each, 20c; four for 60c.

### SPOTTED CALLAS

Similar in growth to the well known White Calla, except that the foliage is dotted with white spots and the flower is smaller, with a dark throat. Each, 15c; four for 50c.

### BEGONIAS, TUBEROUS ROOTED

Are easily grown and are almost sure to bloom. Their showy flowers have become very popular, especially for window or conservatory, thriving in positions where partly protected from direct rays of the sun. Bulbs can be kept dormant from year to year. Our stock of bulbs selected from free bloomers. For seed of Tuberous Begonias, see page 52.

**Double.** White, scarlet, pink or yellow, 20c each; per dozen, \$1.00.

**Single.** White, scarlet, pink or yellow, 15c each; per dozen, 80c.

### CYCLAMEN

A well known and universally admired plant, producing exceedingly handsome flowers. It grows readily, blossoms freely and remains a long time in flower. The soil should be equal parts of turfy loam, leaf mould and sand. Plant in a 5-inch pot well drained. Keep in a cool, light place, watering lightly till growth begins, then water freely and give plenty of light and air.

The stock of bulbs we offer is grown expressly for critical flower lovers.

**Cyclamen Persicum Giganteum.** Separate colors, white, red and purple. Each, 20c.

## GLOXINIAS

**New Giant Flowering Hybrids.** Beautiful house plants of dwarf habit and easy culture. Flowers are trumpet-shaped with beautiful markings, shaded violet, rose, blue or crimson. One bulb planted in a 5-inch pot will make a magnificent show, and if planted at intervals will give a continuous bloom for a long period. Each 15c.

### SUMMER FLOWERING OXALIS

Useful for bordering beds, and also for hanging baskets. **Dleppi**, pure white; **Lasandra**, rosy pink. Price, either color, dozen, 30c; 25 for 50c, postpaid.

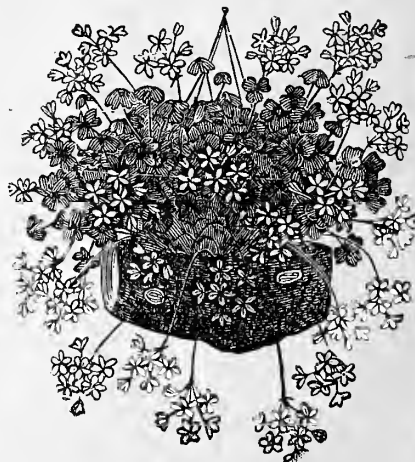
### TIGRIDIAS (Tiger, or Shell Flower)

These gorgeous summer flowering bulbs look well associated with Gladioli, Lilies and kindred stock; grow about 2½ feet high and flower freely throughout the summer. They require the same treatment as Gladioli, and should be lifted in the autumn and dried off in the same way. Mixed colors, 10c each, dozen for 70c, postpaid.

### MONTBRETIAS

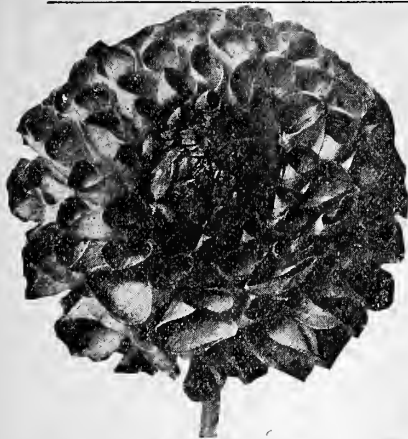
One of the brightest and best of summer flowering bulbs, and one which will be more generally used when its merits become more fully known. Plant in clumps of 6 or 12 bulbs in May or June. They greatly resemble the Gladioli in growth and produce beautiful spikes of star-shaped flowers in various shades of orange, yellow and red. Mixed varieties, 4 for 15c; per dozen, 35c.

When wanting Hyacinths, Tulps, Narcissus, etc., in the fall ask for Fall Bulb Catalog, sent free.



OXALIS





## DAHLIAS

We are now making a specialty of Dahlias and are growing our own stock of bulbs. This enables us to offer the very best varieties and the most reliable bulbs, at the following low prices. We have some of the finest stock in the country—one to three strong eyes to each bulb. Our list contains the very cream of the best varieties. (Varieties marked ♦ are some of our new ones.)

Prices, 15c varieties, \$1.50 per doz.; 25c varieties, \$2.50 per doz.; 6 at the dozen rate.

### SHOW AND FANCY VARIETIES

#### WHITE

**Grand Duke Alexis.** Immense white, delicate lavender shadings, 4 feet, each 15c.

**Lady Mildmay.** White, shaded to pale lilac. Free bloomer. 3 feet, each 15c.

♦ **Robert Broomfield.** Pure white. 4 feet, each 15c.

#### YELLOW

**Miss Dodd.** Purest yellow. 3 feet, each 15c.

♦ **Queen of the Yellows.** Fine clear yellow. Early and prolific bloomer. 3 feet, each 15c.

#### PURPLE, RED AND MAROON

**Bon Ton.** Ball-shaped, deep garnet red, sometimes tipped and streaked with white. 4 feet, each 15c.

**Floral Park Jewel.** Rich purple red, tipped and striped with white. Very early and free bloomer. 3 feet, each 15c.

**Purple Gem.** Rich royal purple. A first-class flower. 4 feet, each 15c.

#### PINK

**A. D. Livoni.** Rich pink, finely formed, a very handsome flower. 3 feet, each 15c.

### PEONY FLOWERED

♦ **Duke Henry.** Brilliant red, free bloomer. 4 feet, each 25c.

♦ **Kia Ora.** Large rosy-pink, shading to white. 4 feet, each 25c.

♦ **Ouary.** Deep blood-red. 4 feet, each 25c.

♦ **Queen Emma.** Charming shade of hollyhock pink. 5 feet, each 25c.

♦ **Souvenir Franz Liszt.** Dark purple-maroon, veined and shaded with white. 4 feet, each 25c.

♦ **Temptation.** Delicate creamy pink, good cutter. 5 feet, each 25c.

♦ **Village Belle.** Large, rich amber, shaded with cherry. 5 feet, each 25c.

### DECORATIVE VARIETIES

#### WHITE

**Mrs. Linder.** This decorative Dahlia we consider one of our best. Its color is a beautiful creamy white, shading to bluish pink. Of perfect outline. 4 feet, each 15c.

**Mrs. T. Winters.** Its color is a pure waxy white, which shows no tint or variation even in the strongest sunlight. It blooms very freely, and never shows an open center. The plant grows to a height of 4 feet, and is of a rather spreading habit. Price, each 20c.

♦ **Starlight.** Each petal carries 2 or 4 red stripes on a white ground. 4 feet, each 25c.

#### YELLOW

♦ **Moonbeam.** Canary yellow. Blooms freely good keeper. 3 feet, 25c.

#### PURPLE, RED AND MAROON

**Navajo.** The color is very rich, being a most intense red, with violet shading. Strong and healthy, foliage very dark. Each, 15c.

♦ **Eugene Teele.** Very fine deep scarlet. 5 feet, each 15c.

♦ **Jack Rose.** Brilliant crimson-red, rich and glowing. 4 feet, each 15c.

♦ **Riese von Stuttgart.** Gigantic, deep purple-red flower. 5 feet, each 25c.

#### PINK

**Madam Von Den Dael.** An immense shell pink decorative Dahlia. Stems are exceptionally long and wiry, bringing the large flowers above the foliage. Each, 20c.

♦ **Eleanor Stisser.** Buff, shading to pink, and old rose. 5 feet, each 25c.

♦ **Flemingo.** Bright shell-pink. Good for cutting. 3 feet, each 25c.

♦ **Sylvia.** Soft pink, light center, good bloomer. 4 feet, each 15c.

### SINGLE DAHLIAS

♦ **Black Bird.** Dark foliage and bright red flowers. 4 feet, each 20c.

♦ **Lady Love.** Light canary yellow. 4 feet, each 20c.

♦ **President Viger (Collarette).** Carmine red, yellow center surrounded by frill of pure white miniature petals. 3 feet, 20c.

**Twentieth Century.** Rosy crimson, tipped with white; white band around center. Each 20c

### POMPON OR BOUQUET DAHLIAS

**Catherine.** Bright yellow, good form and stem. 3 feet, each 15c.

**Darkness.** Very dark maroon, extra fine. 3 feet, each 15c

**White Aster—Guiding Star.** Pure white; excellent for cutting; petals fringed. 3 feet, each 15c.

♦ **Bacchus.** Clear bright red. 4 feet, each 15c.

♦ **Little Prince.** Varies from deep red to pinkish white. Very small. 3 feet, each 15c.

♦ **Pure Love.** Beautiful lilac. 4 feet, 15c.

## DAHLIAS—Continued

### CACTUS DAHLIAS

#### WHITE

**Iceberg.** A delicate, medium-sized flower, borne on long erect stems. Color pure white shading to greenish white at the base of the petals. 3 feet, each 15c.

♦**Prima Donna.** Pure white, long curved petals. 3 feet, each 25c.

#### PURPLE, RED AND MAROON

**Gloriosa.** Bright scarlet, long curved petals. One of the best. 4 feet, each 15c.

**Uncle Tom.** Maroon approaching black; petals long and narrow, flowers large and full, strong tubers. Each 15c.

**Amos Perry.** Large flower, petals long and curved. Intense scarlet. 3 feet, each 15c.

♦**Alight.** Rich orange scarlet, long petals. 3 feet, each 25c.

♦**Charles Clayton.** Intense vivid red, large flowers. 4 feet, each 25c.

♦**Velvet Queen.** Dark rich red, 4 feet, each 25c.

#### PINK

**Countess of Lonsdale.** Color, an exquisite shade of rich salmon, with just a suspicion of apricot at the base of the petals. Towards the tips the color deepens gradually to the softest carmine pink. Each, 20c.

**Gen. Buller.** Cardinal with crimson shading. Each petal tipped with pinkish white. 3 feet, each 15c.

**Kriemhilde.** Produces flowers of a delicate flesh pink, shading to white in the center. As a cut flower it is likely to supersede all existing pink sorts. Each, 20c.

♦**Fairies Lantern.** A fine new flower; center white with back row of petals red. 3 feet, each 25c.

♦**Lenan.** Amber pink, large and full. 3 feet, each 15c.

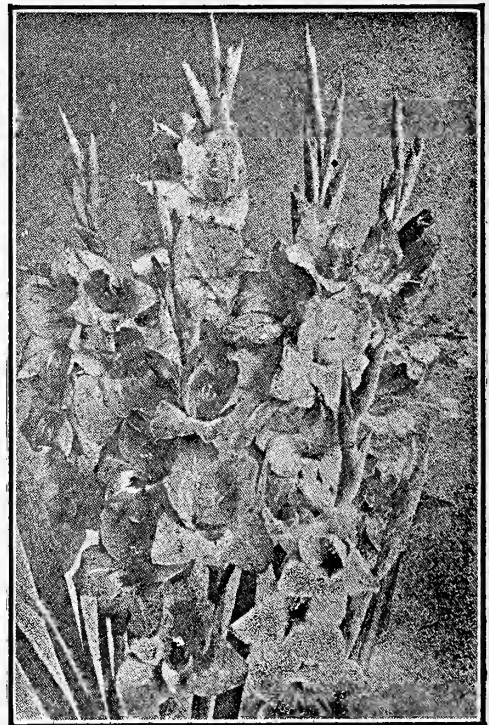
#### YELLOW

**Mrs. Chas. Turner.** Is the finest of all the yellow in the Cactus variety. Extra large, with long, pointed petals. Bright lemon yellow. 4 feet, each 15c.

## GLADIOLUS

The most attractive of all summer flowering bulbs, and now that such great advancement over the common sorts has been made, the Gladiolus is winning admirers each season. They are sure to bloom. We recommend planting 4 inches deep, in ordinary soil not excessively rich. Make succession of planting to have blooms prolonged through the season. Large bulbs do not always produce the grandest flowers. Medium sized bulbs give best results.

|   | Each   | Doz.   |
|---|--------|--------|
| <b>Amerlea.</b> Soft pink, extra large spike.....   | \$0.10 | \$0.75 |
| <b>Augusta.</b> Lovely, pure white with blue anthers; strong, straight spike, often having two or three branches..  | .10    | .75    |
| <b>Baron Hulot.</b> Large size flowers, well arranged on straight spike; color dark violet, bordering on blue.....  | .10    | 1.00   |
| <b>Brenchleyensis.</b> Vermilion scarlet.   | .10    | .75    |
| <b>Bird of Paradise.</b> Canary yellow, striped cherry.....   | .10    | .75    |
| <b>Golden King.</b> Bright yellow with crimson patch.....   | .20    | 2.00   |
| <b>George Paul.</b> Large flowers, deep crimson slightly stained yellow, spotted with purple.....   | .10    | .75    |
| <b>Giant Pink.</b> Large flowers of rich and clear pink, three lower petals marked with red.....  | .10    | .75    |
| <b>Jane Deulafoy.</b> Flowers creamy white, lower petals stained maroon...  | .10    | .75    |
| <b>Klondyke.</b> Very desirable as one of the earliest yellow. Pale primrose yellow with crimson maroon blotch on lower petals.....   | .10    | .75    |
| <b>Mrs. Frances King.</b> Light scarlet, long spikes.....   | .10    | .75    |
| <b>Mephistopheles.</b> Flowers of large size, dark red, stained with black and yellow. Very attractive.....   | .10    | .75    |
| <b>Mrs. Beecher.</b> Beautiful deep rosy crimson, large well open flowers, with white throat, freely marked.....  | .10    | .75    |
| <b>Peace.</b> Beautiful white with pale lilac.....  | .20    | 2.00   |
| <b>Princeps.</b> Is the largest and most effective and graceful of all Gladioli. It grows from 3½ to 4 feet high under ordinary garden conditions; its handsome foliage is a grand setting for the brilliant Amaryllis-like blooms which open more widely than any other variety. The color is rich crimson with intense shadings in the throat and broad white blotches across the lower petals. The flowers range from 5 to 6 inches in diameter..... | .15    | 1.50   |
| <b>Snowbank.</b> Fine spike of well formed flowers, pure white, save for a slight stain of red at base of petals...   | .10    | .75    |
| <b>The King.</b> Rich magenta, the throat bearing a blotch of red on a white ground.....  | .15    | 1.50   |
| We will sell one dozen mixed varieties at dozen rate, if prices per dozen are same.   |        |        |
| <b>Groff's Strain, Mixed.</b> Many flowers measure 5 inches across, from tip to tip of petals. They are surely grand. You should order from this stock  |        |        |



if you wish to excel in cultivating Gladioli. All large size bulbs, 10c each; 75c per doz. Second size bulbs, 60c per doz.; 100, not prepaid, for \$3.50.

**High-Grade Mixture.** Made up of many of the finest of the older strains, including some of Lemoine's Seedlings, Childs' and Burbank's Select. Average good sized bulbs. 4 for 20c; doz. for 50c; 100, not prepaid, for \$2.50.

**Good Mixture.** Consists of a good assortment of sure to bloom bulbs. Doz. 30c, prepaid; 100, not prepaid, for \$1.25.

Light Colors Only, Mixed. Each, 5c; 6 for 30c; 12 for 50c, prepaid.



## CHOICE HARDY LILIES

(All Prepaid)

The Lily is decidedly "The Queen of Hardy Flowers." Much can be said in praise of the varieties we offer. There are many varieties not sufficiently hardy or suitable for our locality.



LILY—AURATUM

**Longiflorum, Easter Lily.** Pure white trumpet flower. Each, 25c; dozen for \$2.00.

**Auratum.** The true golden-banded Lily of Japan—see cut. This Lily is perfectly hardy, increases from year to year. Should be in every garden. Each, 25c; dozen for \$2.00.

**Speciosum Rubrum.** A beautiful Japan variety, with six broad white petals, with rich crimson spots. Each, 15c; dozen, \$1.50.

**Speciosum Album.** The white petals have green bands through the center. Each, 25c; dozen, \$2.00.

**Speciosum Melpomene.** Flowers pinkish crimson, frosted with petals curved and widely bordered. Each, 25c; dozen, \$2.00.

**Tigrinum Flore Pleno.** The old-fashioned Double Tiger Lily. Much admired for its stately habit, bearing immense clusters of blossoms of orange red, spotted with black. Each, 20c; 3 for 50c; dozen for \$1.50.

**Lily of the Valley.** A bed or clump of these in a shady corner will thrive and bring you a wealth of fragrant blooms. 6 pips for 25c; 12 for 40c; 100 for \$3.00.

## TUBEROSES

One of the most delightfully fragrant and beautiful of the summer flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed, and for a succession they can be planted at intervals as late as August. For open ground culture plant in May and June in warm location.

**Mexican Everblooming.** See Novelties, page 11.

**The Pearl—Double Dwarf.** First size bulbs, each 5c; 12 for 50c; postpaid. Not prepaid, 12 for 40c. Second size bulbs, 30c per dozen, postpaid; not prepaid, 25c.

### BULB COLLECTION OFFER No. 30

Price, Postpaid, 30 Cents

- 1 *Lilium Auratum*.
- 2 *Montbretias*.
- 1 *Tigridia*.
- 2 *Gladioli*.

### BULB COLLECTION OFFER No. 50

One each of the following postpaid, for 50c

- 1 *Amaryllis Formosissima*.
- 1 Spotted Calla.
- 1 Named Canna.
- 1 *Begonia*, single.
- 1 *Begonia*, double.

## HARDY PERENNIAL HERBACEOUS PLANTS AND ROOTS

No flower garden is complete without an assortment of the hardy plants that usually require very little care. They can often be tucked away in corners and odd places to come up each season with the opening of spring.

The prices named include postage, except where noted. If we are privileged to ship by express at your expense we can usually supply much larger and stronger roots for the same price.

### ACHILLEA

**The Pearl.** Pure double white flowers, useful for cutting. Each, 20c; 3 for 50c.

### ASTILBA JAPONICA

A species of *Spirea*, with dark green cut leaves and feathery white flowers. Each, 25c, not prepaid.

### AQUILEGIA COERULEA—The True Rocky Mountain Columbine

The true beauty of this flower is appreciated when seen wild in the mountains of Colorado. We make a specialty of collecting roots and furnish none but the true stock. We ship to all parts of the United States. Large roots, 25c; medium size roots, 20c.

### BLEEDING HEART OR DIELYTRA

The old favorite, heart-shaped flowers. Each, 25c; 3 for 60c.

### BURNING BUSH—*Lychnis Chalcedonia*

A very showy plant with bright scarlet flowers. Blooms in July. Each, 20c; 3 for 50c.

### CAMPANULA

In several varieties, including the Canterbury Bell. Each, 20c; 3 for 50c.

### COREOPSIS LANCEOLATA

Flowers are bright golden yellow. Each, 20c; 3 for 50c.



COLUMBINE

## HARDY PERENNIAL HERBACEOUS PLANTS AND ROOTS—Continued

### DIANTHUS BARBATUS—Sweet William

Continues in bloom most all summer. Large, double flowers. Each, 20c; 3 for 50c.

### DELPHINIUM FORMOSUM Perennial Larkspur

A very graceful, tall growing plant, with long spikes of bright blue flowers. Each, 20c; 3 for 50c.

### DIGITALIS—Fox Glove

A very ornamental plant, growing to about 3 feet high. Each, 20c; 3 for 50c.

### GYPSOPHILA PANICULATA—Baby's Breath

Small white flowers, very useful for bouquets. Each, 20c; 3 for 50c.

### HELIANTHUS MULTIFLORUS PLENUS— Dahlia Sunflowers

Loaded with yellow flowers. Makes excellent cut flowers. Each, 20c; 3 for 50c.

### HELIANTHUS MAXIMILLIANAE

Yellow, long graceful sprays. Fine for cut flowers, blooms in September; height, 6 feet. Each, 20c; 3 for 50c.

### SHASTA DAISIES—Burbank's New Varieties

There are now a few more varieties of this celebrated favorite, which are quite superior to the older form of Shasta Daisies. We mention a few of the best that produce flowers twice the size of the old form, with extra long stems.

Alaska, Westralia, California. Each, 25c; 6 for \$1.20.

### FUNKIA OR DAY LILY

**White Day Lily—Funkia Alba.** Has milky white flowers, 3 to 4 inches long. In very cold localities requires some protection through the winter. Each, 25c.

**Yellow Day Lily.** Produces large, fragrant yellow flowers, during July and August. Each, 25c.

### GAILLARDIA GRANDIFLORA

Has a mass of blooms the entire season. Flowers are dark red-brown, with petals of orange or crimson. Price, 20c; 3 for 50c.

### HOLLYHOCKS

The handsome double flower of the improved varieties of this flower makes it a great favorite. Our stock is grown by a man who makes a specialty of bulbs and shrubs. We have in stock double white, salmon, pink, yellow, red and maroon. One year old roots. Each, 15c; doz. \$1.20.

### MAMMOTH ALLEGHENY HOLLYHOCKS

This entirely new Hollyhock is quite distinct from the older varieties. Flowers beautifully fringed. Mixed colors. 15c each; doz. \$1.20.



FUNKIA

HOLLYHOCKS

### GERMAN IRIS—Flag, Fleur de Lis

This is one of the most desirable summer flowering plants. They bloom in June and July and because of the great range of color are also known as "Rain-bow Flower." Each, 20c; 3 for 50c; 12 for \$1.50.

#### Named Varieties |

**Canary Bird.** Light canary yellow.

**Celeste.** Bright blue.

**Conspicua.** Maroon and yellow.

**Florentina Alba.** White tipped pale lilac.

**Honorabilis.** Yellow and crimson.

**Flavescens.** Light primrose yellow; Very large and free flowering.

**Mrs. H. Darwin.** Satiny white veined crimson.



GERMAN IRIS

**Delicata.** Standard light blue; drooping petals white, edged lavender.

**Queen of May.** Soft rosy lilac, almost pink; free bloomer.

### SIBERIAN IRIS

**Blue.** This is a flower of remarkable hardiness and vigor and one of the best for cut flowers.

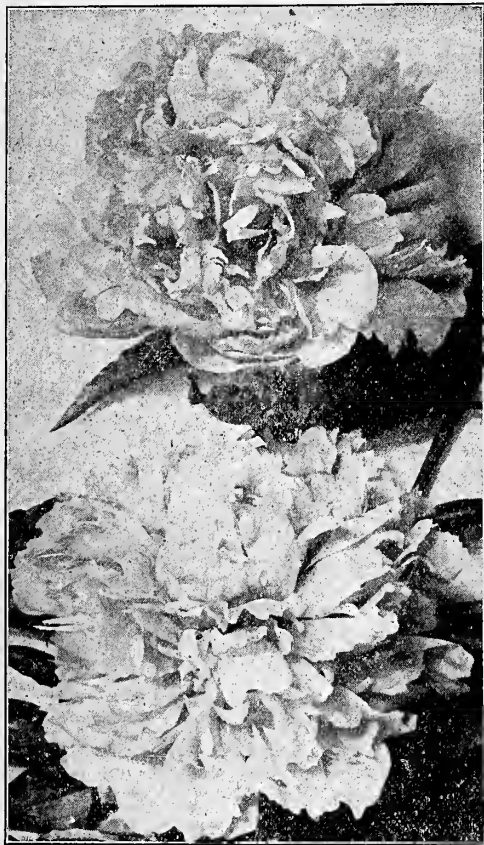
### JAPANESE IRIS—Iris Kaempferi

A splendid hardy plant of easy culture, which delights in constant cool, moist soil. It succeeds splendidly by the side of a stream, lake, pond or in a swamp. It has the richest colors of the family and can be compared to orchids. It commences blooming about the middle of June and continues for 5 to 6 weeks. Many of the flowers measure 8 to 10 inches in diameter. Mixed varieties, each, 25c; dozen, \$2.50.



## PAEONIES

This grand old Favorite is today one of the most popular flowers. The Japanese have always held them in esteem and have brought to use an endless variety of colors and forms of bloom. The plant is perfectly hardy and increases rapidly. The flowers come early and are very seldom attacked by disease. An assortment should be in every garden. Our roots are extra large.



PAEONY—FESTIVA MAXIMA

### RUDBECKIA OR GOLDEN GLOW

This is decidedly one of the brightest and most showy among the hardy plants, and one of the easiest culture possible, commencing to bloom in July and continuing until killed by frost. The plant is compact, growing from 4 to 7 feet high, producing numerous stems, which are laden with double golden-yellow flowers, in size and general shape resembling a Cactus Dahlia. Excellent for cut flowers, lasting well when cut. Each, 20c; 3 for 50c.



TRITOMA

### POPPY HARDY ORIENTAL

Large and flaming flowers of orange-scarlet color. Each, 20c; 3 for 50c.

### TRITOMA—Torch Lily or Red-Hot Poker

**Pfitzeri.** The freest flowering variety in cultivation, with heads of blooms over 12 inches long of a rich orange-scarlet, shading to salmon-rose at edges, producing a grand effect, whether planted in the border or in masses or beds. Each, 25c.

**Golden Center.** Pure white with pale yellow center. A very attractive flower. Each, 30c; by mail, 35c.

**Early Rose.** An early pink, blooms in clusters; very fragrant. Each, 30c; by mail, 35c.

**Rosea Superba.** Fine, full rosy pink; extra choice flower; very free bloomer. Each, 30c; by mail, 35c.

**Victoria Tri-color.** Outer petals pale rose; mottled with pink; center ones yellowish white, with a few red marks; very large, full and sweet. Each, 30c; by mail, 35c.

**Late Rose.** Similar to Early Rose, only it blooms later in the season. It is a fine rose-scented flower. Each, 30c; by mail, 35c.

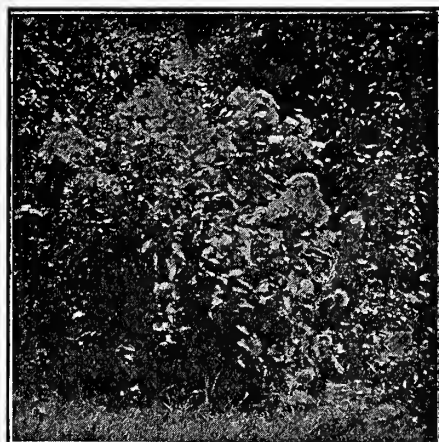
**Paeony Collections** of above 5 distinct colors for \$1.20; by mail, \$1.30.

**Festiva Maxima.** The grandest of all Paeonies. White with carmine flaked center and very double. 40c each; by mail, 45c.

**White,** unnamed, but strong roots, 25c each; by mail, 30c; 6 for \$1.15; by mail, \$1.30.

**Pink,** unnamed, but strong roots, 25c each; 6 for \$1.15; by mail, \$1.30.

**Red,** unnamed, but strong roots, 25c each; 6 for \$1.15; by mail, \$1.30.

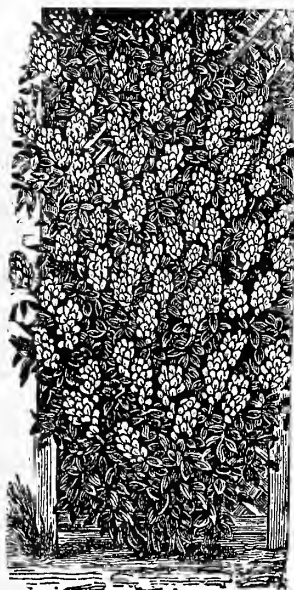


HARDY PHLOX

### EARLY FLOWERING HARDY PHLOX

These we consider the most desirable of all hardy perennials

Flowering abundantly from July until late in the autumn. These new French varieties are of a dwarf growth, seldom attaining a height of over 12 to 18 inches. The immense flower heads often measure from 7 to 9 inches across, with flowers as large as a silver dollar, and comprise all shades of color, vermilion to white. They delight in sunny location and rich soil, but are by no means particular. We can supply these in ten different colors—white, pink, red, purple, lavender, deep lilac, pale pink with red eye, white with pink eye, salmon scarlet, salmon pink. 20c each; 3 for 50c; set of ten different colors, \$1.25 postpaid.

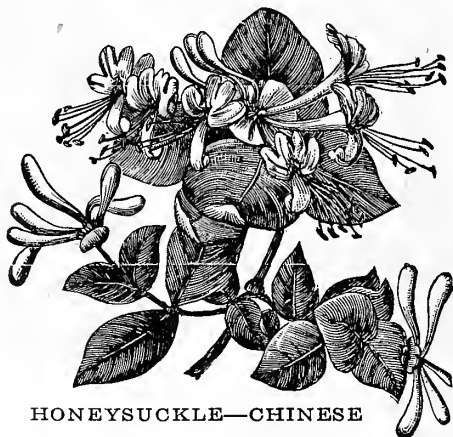


**APIOS TUBEROSA**

**Jackmanii.** Has rich, large, deep purple flowers, so much admired by all. Healthy two-year-old roots. Postpaid, each, 50c.

**Mme. Eduard Andre.** A new bright red. Large flowering and as free bloomer as Jackmanii. With slight protection it will withstand the winters in Colorado. Postpaid, each, 50c.

**SPECIAL CLEMATIS OFFER:** You pay the expressage. One each Jackmanii, purple; Henryi, white; Madame Eduard Andre, red, for \$1.15.



**HONEYSUCKLE—CHINESE**

**HONEYSUCKLE HALLEANA—Chinese**

Grows vigorously, with yellowish-white fragrant flowers. Large two-year-old roots, 35c, by express, not prepaid.

**MADEIRA VINE**

While it grows most anywhere, it does best in a warm, sunny location. Has a small white flower. Foliage of waxy appearance. Madeira tubers are not hardy, though they are excellent climbers, thus we place them on this list. Strong tubers, 2 for 15c; doz. 50c, postpaid.

**BULB COLLECTION No. 25. Climbing Plants**

3 Apios Tuberosa, 3 Madeira Vines,  
2 Cinnamon Vines, all by mail for 25c.

# HARDY CLIMBING PLANTS

FOR PORCHES, TRELLIS, ETC.

**AMPELOPSIS VEITCHII—Boston Ivy.**

The handsomest vine possible for trailing to walls, buildings, etc. Is usually hardy; however, some protection is necessary. Two-year-old plants by express, 25c; small plants by mail, 25c; 3 for 50c, postpaid.

**APIOS TUBEROSA OR TUBEROUS WISTARIA**

Has foliage and blossoms similar to ordinary Wistaria, though propagated by tubers. Perfectly hardy. Each, 10c; 12 for 50c, postpaid.

**BIGNONIA—TRUMPET VINE**

An old-fashioned hardy climber, bearing trumpet-shaped crimson orange flowers. Large roots, 35c each, by express, not prepaid.

## CLEMATIS

It is a rapid grower, and delights in a heavy, rich soil and a sunny position. Dig the soil deep and plant so that the crown of the roots will be 3 inches below the surface of the soil, water freely, especially in dry times; give plants a good top dressing of well-rotted manure late in the fall, and in the spring spade well and carefully into the soil and you will be well repaid. The varieties we have are those best adapted to our climate.

**Henryi.** Strong grower, flowers always eight-sepaled, 4 to 6 inches in diameter and pure white. Very hardy. Postpaid, each, 50c.



**GROUP OF 4 CLEMATIS**

**Paniculata.** The flowers are of medium size, pure white, borne in immense sheets. Very fragrant. Hardy and of quick growth. This has different style blossoms from the above kinds. The small white flowers are very attractive. In bloom latter part of August and through September. Postpaid, each, 50c.

**CINNAMON VINE**

This beautiful climber possesses the rare quality of emitting from its flowers the delightful odor of cinnamon and is appropriately called the Cinnamon Vine. Perfectly hardy, the stem dying down every autumn, but growing again so rapidly as to completely cover any trellis or arbor early in the season. With its beautiful heart-shaped leaves and clusters of delicate white flowers, and delicious cinnamon odor, is a most desirable climber. We furnish the tubers, postpaid, for 15c; 3 for 35c. Second size, 10c each; 3 for 25c.

**HONEYSUCKLE**

**Scarlet Trumpet or Coral.** Very strong, rapid grower with red flowers. Large two-year-old roots, 35c, by express, not prepaid.

**JAPAN BEAN OR KUDZU VINE**

The most rapid growing perennial vine in cultivation, attaining, once after being established, a height of 50 feet or more in one season. Its foliage is large and furnishes dense shade. It bears small racemes of rosy-purple pea-shaped blossoms towards the end of August. A splendid plant for covering permanently verandas, dead trees, etc. Good roots, each, 40c, postpaid.

**WOODBINE**

An exceedingly popular vine for porches, arbors, etc. Is very hardy, clings readily. Each, 20c; 3 for 50c; doz. \$1.50, postpaid.

**WISTARIA**

A great climber, with dense clusters of beautiful flowers.

Purple, large roots, 35c, by express, not prepaid. White, large roots, 50c, by express, not prepaid.





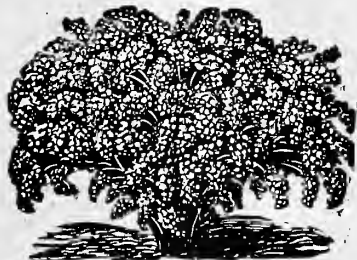
## HARDY SHRUBS

SHOULD BE SENT BY EXPRESS

If they must be shipped by mail, add 25c each for packing and postage.

### ALMOND, DOUBLE FLOWERING

The first shrub in the spring to bloom, even young plants being entirely covered with little pink rosettes, before any foliage is seen anywhere. Order these in March if you want them to bloom the first year. Blossoms in May. Price for strong plants, either pink or white, 40c each.



BRIDAL WREATH

### HONEYSUCKLE TARTARIAN

(Upright.) Forms a fine bush with creamy white flowers. Blossoms in July, and red berries appear in August. Each, 40c.

### HYDRANGEA PANICULATA GRANDIFLORA

A most beautiful shrub with immense panicles of blooms, white fading to a light pink. The most popular shrub we have. Blossoms in August. Strong root, 35c each. Extra large, 50c each.

### GOLDEN LEAVED ELDER—Sambucus Aurea

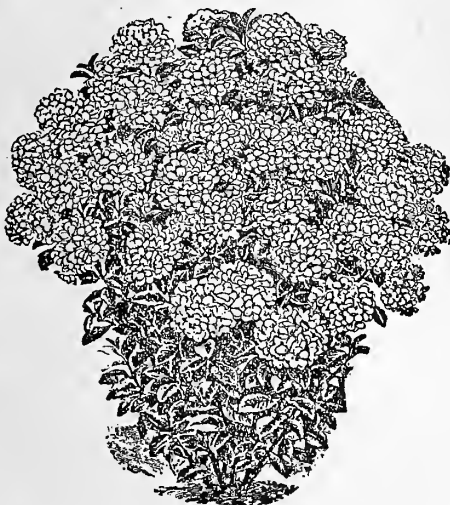
Very striking in appearance and a very robust grower. Blossoms in July. Each, 45c.

### LILAC

Grows freely in any soil. We have the pure white and purple colored. Blossoms in May. Each, 35c; 2 for 55c.

### LILAC PERSIAN

This splendid variety has smaller foliage and brighter colored flowers than the common variety. It does not grow so tall and blooms three or four weeks later. We have both purple and white. Each, 50c.



JAPAN SNOWBALL

### JAPAN SNOWBALL—Viburnum Plcatum

This Japanese variety is a close relation to our own Snowball; it is perfectly hardy and forms a nice shaped shrub from 6 to 8 feet high. It is covered with white flowers during the month of June; flowers resemble our old Snowball, but are rather flat than round. Strong plants, 50c each.

### BLUE SPRUCE

Rocky Mountain grown. The best Evergreen for lawn. 20 to 24 inches high, \$2.00; 2 to 3 feet, \$2.50 each, by express only.

### BRIDAL WREATH—Spirea Van Houttei

The most beautiful of all Spireas. In the spring it is a perfect fountain of white flowers; it is admired by all who see it. Strong two-year-old plants. Blossoms in May and June. 40c each.

### HIBISCUS—Rose of Sharon

Has large, double flowers, pink or white with maroon center. Blossoms in August. Each, 40c.

### CALYCANTHUS FLORIDUS—Strawberry Shrub

A well known shrub with double chocolate-colored flowers, with decided strawberry scent. Good sized plants. Blossoms in June. 40c each.

### ENGLISH HAWTHORN— Crataegus

We have the double flowering variety which is superior to the old single form. Nice, strong plants, 50c each.



STRAWBERRY SHRUB

### NEW DOUBLE-FLOWERED LILAC

Decidedly one of the most beautiful of all shrubs, especially adapted for the lawn. The flowers are perfectly double and very fragrant. Being a late bloomer, it is especially adapted to this country, thus not likely to suffer from late frosts, which so often catch the early single varieties. Blossoms in June. Each, 50c.

### JAPAN QUINCE OR FIRE BUSH— Pyrus Japonicus

A very showy and popular shrub. Large, bright, scarlet flowers, and may be called a scarlet apple blossom. Blossoms in May. Each, 40c.

### MOCK ORANGE—Philadelphus Coronatus

Sometimes called Jessamine. Free flowering, pure white. Has a Jessamine fragrance. Blossoms in June. Large two-year-old stock. 40c each.

### SNOWBALL

A shrub that needs no introduction. Our stock is choice two-year-old roots. Blossoms in June. Each, 40c.

### SPIREA CRIMSON—Anthony Waterer

This is a dwarf and very compact growing variety not over 2 feet, different from any other Spirea; covered all summer with bright crimson flowers, and perfectly hardy. Fine plants. Each, 40c.

### TAMARIX AFRICANA

Strong, slender growing, irregular shrubs, with feather foliage of a most striking pea green, and small, delicate flowers, borne on gracefully bending branches. These pink flowers are very attractive during July and August. Price, 40c.

## BARTELDES' SELECTED ROSES

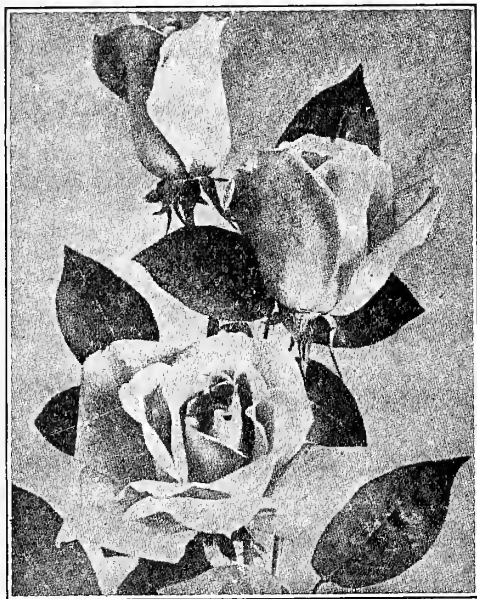
BEST ADAPTED TO OUR WESTERN COUNTRY

**CULTURE.** The Rose, rightly called the Queen of Flowers, being a very heavy feeder, should be planted in soil made as rich as possible, and not too wet. Before planting incorporate in the soil, when digging the hole, a shovelful of well-rotted manure and set your plant about one inch deeper than originally planted, spreading the roots and pressing the ground firmly around them. Plant the bedding kinds about 1½ feet apart, while the climbers are set from 3 to 4 feet apart. The best time to plant them is in April and May. During the summer the ground must be cultivated to keep it free from weeds and to prevent it from baking. In the fall, after the leaves have fallen off, the plants should be trimmed back to one-half of the season's growth, tied together and dirt heaped around them. A good dressing of old manure or bone meal will insure a big yield of flowers the next year. To prevent and destroy the rose chafer and rose slug, sprinkle the bushes as soon as leaves are forming and once a week after with a solution of one ounce Paris Green to 100 gallons of water. Mildew can be checked by dusting sulphur on the leaves every 2 or 3 days, and green fly will soon disappear if tobacco dust is scattered on and under the leaves. The plants should be sprinkled thoroughly before applying powdered insecticides.

**CARE TO GIVE ON RECEIVING PLANTS:** As our plants are big, strong, two-year-old, they should be trimmed back to one-third of the length of the main branches, removing all the side shoots (they do not bloom), and if they have been on the way 3 or 4 days, put in a bucket of water for a few hours, unless they are shipped in a growing state and dirt around the roots. We do not trim plants much, unless asked to do so, as most people expect large bushes and they look better untrimmed, but if you want your roses to grow, and we are very anxious that they should, you must trim them before or right after planting. Three or four eyes to a branch are sufficient.

We have had many flattering testimonials in regard to size and varieties of Roses we have sent out, and we have secured for this season the cream of our growers' stocks. These Roses are too large to mail satisfactorily.

### HARDY ROSES FOR OUTDOOR PLANTING



#### WHITE

**COQUETTE DES BLANCHES.** Pure white, with beautiful shell-shaped petals. Especially suitable for cemetery planting.

**FRAU KARL DRUSCHKI.** A pure paper white, large sized and free flowering. The bloom is perfect in form and borne on a long stem.

**MADAM PLANTIER.** One of the best for cemetery planting with its large clusters of pure white flowers.

**MARGARET DICKSON.** A grand white, one of the most beautiful of the Hybrid Perpetuals.

**EVERGREEN GEM (Vichurliana) Memorial Rose.** Creamy white with the rich fragrance of Sweet Briar roses.

These are by far the most satisfactory Roses for our Western country. They are distinguished for their vigorous growth and large, perfect flowers. We recommend them for permanent beds. We furnish two-year-old field-grown plants, which are kept dormant in our storage cellar and should not be taken out until time for planting.

**Price for all the two-year-old stock, 35c each; dozen \$3.00; purchaser paying expressage. If they must be sent by mail, add 15c each for extra packing and postage.**

#### PINK

**CLIO.** Flowers are perfect in form; color, delicate satin blush, free blooming and strong, healthy grower.

**LA FRANCE.** The delightful fragrance of this Rose is appreciated by all lovers of Roses. This is the most perfect of Roses. A delicate pink. Halfhardy, needs a little covering through the winter.

**MAGNA CHARTA.** Beautiful bright pink, suffused with carmine; strong grower.

**PAUL NEYRON.** Flowers deep pink. A very strong grower and a free bloomer.

**ENGLISH SWEET BRIAR.** The well-known English sweet-scented Rose suitable for fancy hedges.

**SWEETHEART (Vichurliana) Memorial Rose.** A beautiful shade of rosy pink, produced freely, and sweet-scented.

#### LIGHT RED

**AMERICAN BEAUTY.** The largest and sweetest of all hardy Roses. Immense in size, rich in color and fragrance; rosy carmine.

**ANNA DE DIESBACH.** Clear, bright carmine; very large and finely shaped; full and fragrant.

#### YELLOW

**GLORIE LYONAISE.** White, tinted with yellow. The nearest approach of a yellow rose among Hybrid Perpetual Roses.

**YELLOW PERSIAN.** Hardy semi-double yellow flowers, strong grower.

#### RED

**BABY RAMBLER.** This new Rose is a cross between "Crimson Rambler" and "Glory of Polyanthus," retaining the color and extreme hardness of the former with the free flowering and dwarf habit of the latter. It is perfectly hardy and is covered with bright crimson flowers all through summer. A superb Rose for pot culture.

**GENERAL JACQUEMINOT.** Brilliant scarlet crimson, too well known to need description; no garden complete without it.

**GENERAL WASHINGTON.** Red shaded crimson, large, full and flat.

**PRINCE CAMILLE DE ROHAN.** Very dark velvety crimson, changing to a deep maroon.



## HARDY ROSES—Continued

### MOSS ROSES

These are still favorable where an assortment of Roses are cultivated. Large plants, 35c each; \$3.00 per dozen.

**BLANCHE MOREAU.** Pure white flowers in clusters, large, full and sweet; finely mossed.

**CRESTED MOSS.** Rose color, beautifully crested.

### BARTELDES' SPECIAL ROSE COLLECTION

Ten good and strong two-year-old plants, comprising all shades and colors, bush and climbing varieties, our own selection. By express, not prepaid, \$2.25.



## HARDY CLIMBING ROSES

Desirable for covering trellises, walls or porches, as they succeed under all circumstances. Perfectly hardy, blooming in clusters of medium-sized double and semi-double flowers profusely throughout the season. Price for two-year-old field-grown plants by express, 35c each; \$3.00 per dozen. If they must be sent by mail, add 15c each for extra packing and postage.

**NEW CLIMBING AMERICAN BEAUTY.** This new climber is a wonderful addition to the list of climbing roses. The flower is the same shape and size as the grand old American Beauty, but will produce twenty times as many blooms. Stands outdoor planting perfectly well and will not disappoint you. Price each, 60c, postpaid

**THE CRIMSON RAMBLER** remains at the head of the climbing roses. It is a vigorous grower, making shoots 10 to 15 feet in a single season, and when in bloom commands admiration by the gorgeous display of its brilliant crimson clusters of blossoms, each cluster a bouquet in itself. The blooms remain on the plant for a great length of time without losing their brightness. It is perfectly hardy in all parts of the West.

**YELLOW RAMBLER.** Also a strong grower and very hardy; produces large trusses of nearly double pale yellow flowers; very fragrant.

**WHITE RAMBLER.** Semi-double flowers lasting a long time on the plants.

**SPECIAL COLLECTION OF RAMBLERS.** One each, crimson, white, yellow, with a colored picture. Price, 90c.

**BLUE RAMBLER.** It is a strong growing hardy climbing rose, with a glossy green foliage and a few prickly thorns. The steel blue flowers appear in large clusters and are semi-double and medium in size. The showy yellow stamens with the blue flowers make the plant particularly attractive.

**LADY GAY.** A desirable new variety of vigorous growth. The flowers are of a delicate cerise pink passing to soft-tinted white. The effect of a plant in full bloom with the combination of the soft white flowers, cherry-pink buds and the deep green foliage is charming.

**DOROTHY PERKINS.** This grand climbing rose resembles very much the Crimson Rambler, but flowers are more double, of a beautiful shell pink color and sweet scented.

**BALTIMORE BELLE.** Produces large, double pale blush flowers.

**PRAIRIE QUEEN.** A favorite. A bright red changing to deep pink.

## GREENHOUSE ROSES

We can furnish Roses from 2½-inch pots direct from the greenhouse. They are good, strong, growing plants, and must not be compared with cheap Roses sold in collection lots. Price, 15c each; 2 for 25c; dozen, \$1.25. If by mail, add 5c each, or 40c a dozen, for postage.

**AMERICAN BEAUTY.** The most popular Rose grown; color, rosy carmine.

**BABY RAMBLER.** Large clusters of crimson flowers; very free bloomer.

**BRIDESMAID.** A pink Tea Rose; very fine for cut flowers.

**FRAU KARL DRUSCHKI.** A pure paper white, large sized and free bloomer.

**GRUSS AN TEPLITZ.** Dark, rich crimson, changing to a bright velvety red.

**LA FRANCE.** The most perfect Rose; color, a delicate pink; very fragrant.

**WHITE KILLARNEY.** A pure white sport of the favorite pink Rose of Killarney. Very floriferous, of exceedingly strong growth and of a very healthy habit. A variety we can recommend.

**LIBERTY.** A fine crimson scarlet; free bloomer.

**MADAM A. CHATENAY.** Flowers of good size, very double; color, rosy carmine, shaded salmon.

**PERLE DES JARDINS.** A rich shade of yellow; perfect form and Tea fragrance.

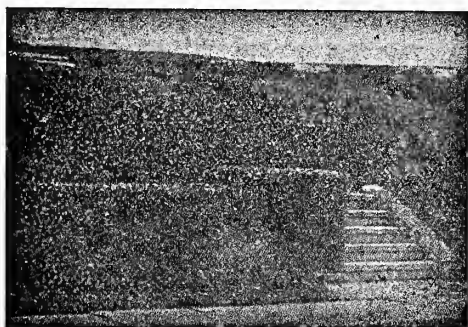
**RICHMOND.** A rich crimson scarlet, with long stems, which does not "blue" with age, blooming as freely as the best monthly rose.

**THE BRIDE.** A pure white Rose of large size and of delicious Tea fragrance.

**WHITE BABY RAMBLER.** Large clusters of white flowers; free bloomer.

**KILLARNEY.** Brilliant pink with large pointed buds, broad wax-like petals and enormous semi-full flowers.

## HEDGE PLANTS



A HEDGE OF PRIVET

### BARBERRY—Purple.

These are the best plants for hedges, and are very hardy. The foliage and fruit are violet colored, rich looking and very effective. 15c each; per doz. \$1.50; per 100, \$11.00. By express only, not prepaid.

### SWEET BRIAR—English Wild Rose

Very rapid grower. The foliage is very fragrant, also the flowers. This makes a superb hedge, especially when in full bloom. It can be trimmed like other hedges. 35c each, by express, not prepaid. Dozen, \$3.00.

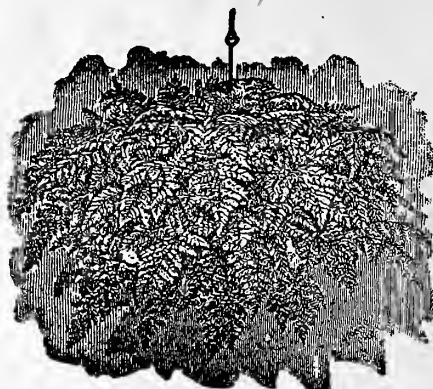
### COLORADO GROWN HARDY PRIVET

Similar to California Privet, but more vigorous and standing our severe winter. Good plants, not prepaid, each 15c; doz. \$1.25; per 100, \$9.00. Six to twelve inch size, each 10c; doz. 75c; 100, \$5.00; 1,000, \$25.00.

### CALIFORNIA PRIVET

This plant is coming rapidly to the front, and if properly handled will make the finest hedge imaginable. They are not quite hardy in mountain districts. They should be planted 8 inches apart, and in a double row where possible. Good plants, by express only, not prepaid, 10c each, per dozen, \$1.00; per 100, \$7.00.

Persons contemplating planting large areas of hedge, or desiring estimates for quantity planting, will do well to consult us.



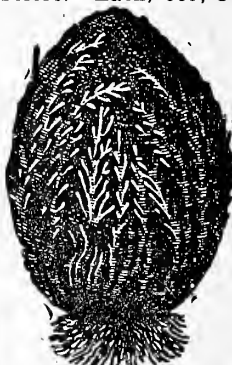
JAPANESE FERN [E]

### JAPANESE FERN BALL

Fern roots woven outside and around a ball of moss. These roots will produce beautiful sprays of fern from eyes at nearly every inch of their length when the whole surface is covered.

**Directions for Starting.** Soak the ball in tepid water from 30 to 40 minutes and hang up. Repeat every other day till well started and after sprinkle when needed. The temperature of a common living room is just right. They can be dried up at any time, put away and started up again by soaking as before. Each, 60c; 3 for \$1.50, postpaid.

### RESURRECTION PLANTS



RESURRECTION PLANT COILED UP  
plants, 10c each; 3 for 6 for 25c. All prepaid.

A truly marvelous plant. When you receive it from us it is a shrunken ball of coiled up leaflets, but when immersed in tepid water one frond-like tip unfolds slowly outward, then another and another until flattened into a plant-like shape, and transformed into a lovely rosette of beautiful velvet-green, fern-like moss, both odd and marvelous. Can be resurrected at will, time and again, indefinitely, by being allowed to curl up and become dry each time, after having been fully opened by water. Large 25c; small plants, 5c each;

## SUMMER BEDDING PLANTS

Ready from April 15 to June 30. Priced by express. If wanted by mail, add 5c each, or 40c a dozen.

| From 2-inch Pot                                       |  | Each   | Doz.   | From 2-inch Pot   |  | Each   | Doz.   |
|---|--|--------|--------|---|--|--------|--------|
| Antirrhinum (Snapdragon), assorted colors.....        |  | \$0.10 | \$1.00 | Hanging Basket Plants in assorted varieties.....              |  | \$0.10 | \$1.00 |
| Asters, Chinese and Japanese, var. asst. colors.....  |  | .10    | 1.00   | Heliotrope, white and blue.....                               |  | .10    | 1.00   |
| Asters (Daybreak), best for bouquets, pink.....       |  | .10    | 1.00   | Ivy, English.....   |  | .10    | 1.00   |
| Carnations, Marguerite, fine summer bloomers.....     |  | .10    | 1.00   | Ivy, German.....  |  | .10    | 1.00   |
| Carnations, perpetual blooming, white, pink, red..... |  | .10    | 1.00   | Lobelia, Crystal Palace, (blue).....                          |  | .10    | 1.00   |
| Cosmos, pink, white, red, yellow...                   |  | .10    | 1.00   | Marguerite, white with yellow center                          |  | .10    | 1.00   |
| Coleus, assorted varieties.....                       |  | .10    | 1.00   | Marguerite, pure yellow.....                                  |  | .10    | 1.00   |
| Chrysanthemums, Chinese and Japanese, asst.....       |  | .10    | 1.00   | Petunia, single, Giants of California, assorted.....          |  | .10    | 1.00   |
| Feverfew, double white.....                           |  | .10    | 1.00   | Petunia, double fringed, asst. colors                         |  | .10    | 1.00   |
| Forget-Me-Not, blue.....                              |  | .10    | 1.00   | Phlox, Drummondii Grandiflora, asst.....                      |  | .10    | 1.00   |
| Fuchsia, double, assorted colors....                  |  | .10    | 1.00   | Pinks, Chinese, double and single, asst.....                  |  | .10    | 1.00   |
| Fuchsia, single, assorted colors....                  |  | .10    | 1.00   | Pinks, hardy.....   |  | .10    | 1.00   |
| Geraniums, double, assorted colors..                  |  | .10    | 1.00   | Salvia Splendens (Scarlet Sage)....                           |  | .10    | 1.00   |
| Geraniums, single, assorted colors..                  |  | .10    | 1.00   | Smilax.....   |  | .10    | 1.00   |
| Geraniums, Lady Washington, asst. colors.....         |  | .10    | 1.00   | Stocks, Ten Weeks, assorted colors.                           |  | .10    | 1.00   |
|   |  |        |        | Verbena, one of the best bedding plants, assorted colors..... |  | .10    | 1.00   |
|   |  |        |        | Violets, sweet-scented, blue, single or double.....           |  | .10    | 1.00   |



## SUMMER BEDDING PLANTS—Continued

### PANSY PLANTS

For many years we have made a specialty of offering to our customers a very choice strain of Pansy Plants that are excelled by none for variety or colors and markings—they are grown from seed costing \$5 to \$8 per ounce—positively nothing better. These should always be sent by express. First lots in bloom ready about April 1. Price, not prepaid, 1 dozen in basket for 50c; 3 baskets for \$1.25; 100 plants not in baskets for \$3.00. Small plants nearly ready to bloom, per dozen, 35c; per 100, \$2.50.

We also furnish, BY EXPRESS ONLY, Decorative Plants for the Parlor, such as:

|  |   |
|--|---|
| Palms (Kentia), from.....\$1.50 to \$5.00 each | Boston Ferns, from.....\$0.75 to \$1.00 each    |
| Palms (Latania), from.....1.50 to 5.00 each    | India Rubber Plants, from.....1.50 to 5.00 each |

Larger plants of all sizes and descriptions can be furnished on application.

### DOUBLE DAISIES

Grown exclusively for our trade. Assorted colors, plants in bloom. Can be furnished six in a basket for 40c; two baskets for 75c. All by express; not prepaid.

**Longfellow.** Pink. Three for 25c.  
**Snowball.** White. Three for 25c.

### BURBANK'S SHASTA DAISIES

**Alaska.** Large white flowers.  
**California.** Creamy color.  
**Westralia.** Flowers semi-double, creamy color. Each, 20c; 6 for \$1.00, prepaid.

## VEGETABLE PLANTS AND ROOTS

We have increased our facilities in this line and can fill all orders very promptly. These plants are grown from our selected seed and thus you can depend on genuineness of the plants. The men in charge of the work use great care to produce strong, vigorous plants, and pack them properly. These prices do not include postage. We do not favor having them sent by mail, as they are sure to damage when confined in a close mail pouch.

If by mail, add 6c per dozen; 30c per 100, for postage.

|                         |  | Per 12 | Per 100 | Per 1,000 |
|-------------------------|--|--------|---------|-----------|
| May 1                   | <b>EARLY CABBAGE.</b> From seed bed. Winnigstadt, Jersey Wakefield; ready    |        |         |           |
|                         | May 1.....   | \$0.10 | \$0.60  | \$5.00    |
|                         | <b>EARLY CABBAGE.</b> Transplanted. Same varieties.....                      | .15    | .85     | 7.00      |
| Drumhead; ready in June | <b>LATE CABBAGE.</b> Hollander, Premium Flat Dutch, Winnigstadt and Red      |        |         |           |
|                         | Drumhead; ready in June.....   | .10    | .50     | 3.50      |
|                         | <b>EARLY CAULIFLOWER.</b> Snowball, ready May 1.....                         | .20    | 1.20    | 10.00     |
| June 1                  | <b>LATE CAULIFLOWER.</b> Snowball, ready in June.....                        | .15    | 1.00    | 7.00      |
|                         | <b>TOMATOES.</b> Earliana and Beauty, ready May 1, from seed bed.....        | .10    | .60     | 5.00      |
|                         | <b>TOMATOES.</b> Earliana and Beauty, ready May 1, transplanted.....         | .15    | .90     | 8.00      |
| June 1                  | <b>TOMATOES.</b> Earliana and Beauty, ready May 15, in 3-inch pots.....      | .50    | 5.00    | ...       |
|                         | <b>PEPPERS.</b> Ruby King and Cayenne, transplanted, ready May 15.....       | .20    | 1.20    | 10.00     |
|                         | <b>EGG PLANTS.</b> New York Improved Purple, transplanted, ready June 1..... | .35    | 2.40    | ...       |
| June 1                  | <b>EGG PLANTS.</b> New York Improved Purple, grown in 3-inch pots ready      |        |         |           |
|                         | June 1.....  | .75    | 6.00    | ...       |
|                         | <b>EARLY CELERY.</b> Golden Self-Blanching. Ready May 10.....                | .10    | .60     | 5.00      |
| June 1                  | <b>LATE CELERY.</b> Giant Pascal. Ready June 25.....                         | .10    | .30     | 2.50      |
|                         | <b>SWEET POTATOES.</b> Yellow Nansemond and Yellow Jersey, ready May 15      | ...    | .75     | 6.00      |

Can quote special prices on large lots Cabbage and Celery in July.

**ASPARAGUS ROOTS.** Good one-year-old roots. Dozen, 15c; 100, 80c; 1,000, \$6.00. Good two-year-old. Dozen, 25c; 100, \$1.10; 1,000, \$8.00; if by mail, add 10c per dozen and 30c per 100.

Can supply Conover's Colossal, Palmetto and Columba Mammoth White.

**EARLY ARGENTEUIL.** The earliest and largest green asparagus grown. Dozen, 25c; 100, \$1.20; 1,000, \$9.00. If by mail, dozen, 30c; 100, \$1.30.

**ARTICHOKES.** True White Jerusalem. Pound, 10c; 3 for 25c; 25 pounds at 4c; 100 pounds, \$3.00. Postage, extra.

**CHIVES.** In bunch, sprouted. Each, 15c; dozen, \$1.50. By mail, 10c each bunch extra.

**HORSE-RADISH.** Cut 4 to 6 inches long. Dozen, 15c; 100, \$1.00; 1,000, \$7.00. By mail, add 10c per dozen and 35c per 100.

**HORSE-RADISH MALINER KEEN.** See Novelties, page 8.

**MINT.** The true old-fashioned Mint for seasoning. Per clump of roots, 25c; by mail, 35c.

**RHUBARB.** Large Victoria and Early Linnaeus; cut 1 or 2 eyes to each clump. Dozen, 50c; 100, \$3.00; 1,000, \$20.00. By mail, 35c per dozen extra.

**RHUBARB.** Australian Crimson Winter. Each, 20c; dozen, \$1.25, postpaid. 100 not prepaid, \$7.00.

**SAGE.** One-year clumps. Each, 25c; postage, 5c extra.

**TARRAGON.** Highly recommended for Tarragon vinegar. Each, 25c; by mail, 5c extra.

## SMALL FRUIT SEEDS

**CURRENT, GOOSEBERRY, RASPBERRY, STRAWBERRY, BLACKBERRY.** Pkt. 10c; oz. 70c.

New and rare varieties of small fruits are often obtained from planting seed; however, the seed does not produce all plants of the same variety as its parent.

**WONDERBERRY.** This plant is of very quick growth, ripening fruit in three months from time of seeding, and resembles a tomato plant but of more erect form. The dark purple blueberry-like fruit is produced in great abundance. It is very good for making pies and jellies. It requires same culture as tomato. Pkt. 10c; ¼ oz. 50c; ½ oz. 75c.





## TREE SEEDS

EXCEPT WHEN QUOTED BY THE POUND,  
PRICES GIVEN INCLUDE POSTAGE

The growing of forest trees is in the case of some varieties, a very simple and easy process, requiring but little care or skill on the part of the grower. Other varieties require special treatment and great care and attention to insure success, while some are very difficult to grow, and with such planters are not very likely to succeed until after having made repeated failures. One important fact in connection with this subject must always be kept in view, and that is, it takes time for these seeds to germinate, in some cases only a few days, in others several weeks, while quite frequently they will be dormant the whole season before commencing to grow. It often happens that seed of a given variety, all taken from the tree at one time, sown together and subjected to the same treatment, will show great irregularity in time of germinating, some coming up in a few days, others not until the next season and still others not until the season following.

**CONIFERS AND EVERGREENS.** Tree seeds should be kept in perfectly dry sand until the time of sowing. If this cannot be done readily, place them in a cool, dry spot, where mice will not eat them. Chestnuts and walnuts should be planted in the fall, or kept during the winter in sand and moss; they shrivel up by too long exposure to the air, and many of them lose their power of germination entirely. Apple, pear and quince seeds, cherry pits, also those with hard shells, like the locust, magnolias, etc., should be planted in boxes with sand and exposed to the frost before planting, otherwise they may not germinate until the second year after planting, but if these seeds arrive too late in the spring to expose them to the action of the frost they may be put into a vessel of hot water for an hour or so before planting. The seeds of other deciduous trees and shrubs, with few exceptions, can be planted from the end of March to the middle of May with great success.

**THE SOIL** should be deep, rich and mellow. If not rich apply a good liberal dressing of any old, well decomposed manure; mix thoroughly with the soil, rake all down smooth and level and your seed bed is ready. Now draw a line across one side of the plat, and make a shallow trench from a half to one inch deep, according to the size of the seed to be sown; make the trench about six inches wide, scatter the seeds over the bottom, but not too thickly, and cover the seeds to about the thickness of the seeds as evenly as possible, then press the beds gently with the back of the spade to make firm the earth around the seeds.

**GREAT CARE** must be taken not to give too much water, as the young plants imbibe water very easily. Water with a fine hose, but never so that the ground becomes soggy. Some shade must be used to protect the young plants from the hot sun and drying winds, and also to keep the birds from destroying them.

The trenches or drills are to be two feet apart so that the hoe, or garden cultivator can be used in cultivation. Keep the soil loose between the rows, and keep them clear of weeds. Seeds of the rarer sort may be sown in cold frames, or in boxes; if in cold frames, the sashes should be added and the frames raised at the corners three or four inches to allow air to circulate freely. Allow the young plants to remain from one to two years before transplanting.

For timber claims on our prairies we recommend to plant black Walnut, Catalpa, Russian Mulberry, Ash, Box Elder.

## FRUIT SEEDS

**APPLE.** Apple seeds do not produce the same variety but an inferior, though hardy stock. Upon the stock thus raised from the seed are grafted or budded the cuttings of such varieties as are desired. The seed may be planted in good time in any soil during the winter in the South, or early in the spring; it must first be frozen which can be done during the winter by laying the seed in layers in the boxes and covering them with sand, and exposing them to the cold freezing weather. After freezing the seed must not be allowed to become dry, or many will be spoiled if deprived of all moisture.

French Crabapple.....lb. \$1.00

**RUSSIAN APRICOTS.** The hardiest of the Apricots. In its native land it flourishes as far north as the mountains of Duharia, in Siberia. It was brought to the United States about 1857 by the Russian Mennonites, and was extensively planted by them in their Kansas and Nebraska settlements. Fruit medium-sized and of the best quality.

Oz. 10c; lb. 60c.

**QUINCE.** Quinces generally produce the same variety from the seed, but occasionally vary. The stock is used most for budding and grafting the pear. The fruit is used for preserves, pies, tarts, etc. The mucilage from the seed is often used as a toilet article for the hair. The culture from the seed is the same as the apple.....Oz. 20c; lb. \$2.00.

**MAZZARD CHERRY.** Another variety used extensively for grafting.....Oz. 10c; lb. \$1.00

**MAHALEB CHERRIES.** The remarks regarding apples are applicable to cherries. This variety is considered the best stock upon which to graft the choicest sorts.....Oz. 10c; lb. \$1.00

**PEAR.** Sow the seeds thickly in the spring in drills eighteen inches apart. The soil should be deep; a rich moist loam is most suitable. The value of the stock depends largely upon a rapid and vigorous growth; take them up in the autumn, shorten the tap root and set them in rows four feet apart, a foot apart in the row. The next season they will be fit to bud or graft, provided they have been well grown.....Oz. 15c; lb. \$2.00

**MYROBOLAN PLUM.** The direction given for planting apples will apply to plums, except they should be planted farther apart in the rows. The varieties raised from seed will be inferior, but hardy, vigorous stock upon which to graft the choicest sorts.....Oz. 10c; lb. \$1.00

**PEACH.** Peach stock is raised by planting the stones two or three inches deep in the fall. If the stones are cracked they are most sure to grow. The after treatment is about the same as apples, though budding can be commenced sooner than grafting in apple stock.....Lb. 10c; bu. \$2.00.

## DECIDUOUS TREES

**SUGAR MAPLE.** This is one of our highly prized native trees. While other sorts are wanted for special purposes, the sugar maple is a general favorite, and no collection would be perfect without it. It is the great sugar tree of America and its yearly product of syrup and sugar amounts to over \$10,000,000 in value. It succeeds well in all soils and locations making a stout, vigorous, rapid growth of hard-wood most valuable for fuel and highly prized for manufacturing purposes.

Pkt. 5c; oz. 10c; lb. \$1.00.

**SOFT OR SILVER LEAF MAPLE.** One of the most beautiful of Maples. Is being extensively planted in forests on account of its extremely rapid growth. Its wood is quite soft and light and the branches are often broken down by the action of the wind and storm. The seed ripens in May and cannot be kept over until fall and retain its vitality,

hence it should be sown as soon as possible after it is taken from the tree. Can give prices in May.

**WHITE ASH.** This is one of the most valuable varieties for forest planting. It is adapted to a wide range of soils and climates. Its growth is extremely rapid, often attaining a growth of six feet in a single season. It is one of the earliest varieties to transplant or to grow from the seed, requiring no more care or skill than the ordinary crop of wheat beans and Indian corn, with the exception that the seed usually lies dormant the first season, but is sure to grow the next year if the ground is not disturbed.

Pkt. 5c; oz. 10c; lb. 60c.

**ASH LEAVED MAPLE OR BOX ELDER.** A medium-sized tree of extremely rapid growth, not usually attaining a height of over thirty feet. The wood is close and fine-grained. The sap contains a large amount of sugar. Pkt. 5c; oz. 10c; lb. 60c.



## DECIDUOUS TREES—Continued

**AMERICAN BASSWOOD OR LINDEN.** A large tree of rapid growth, wood soft and white, lumber valuable. The foliage is luxuriant and the flowers produce honey in great abundance.  
Pkt. 5c; oz. 10c; lb. \$1.00

**AILANTHUS, TREE OF HEAVEN.** Introduced from Japan, it has been quite extensively planted in our Western States, and is noted for its extremely rapid growth. It grows to a large size, and the foliage has a rich tropical appearance.  
Pkt. 5c; oz. 10c; lb. 60c

**CATALPA SPECIOSA.** Of all the trees that have been suggested as adapted to the formation of timber plantations, the Catalpa stands pre-eminent. It is exceedingly rapid growth, its adaptation to most all soils and situations; its wide range of latitude; its extraordinary success on the Western and Northern prairies; the ease and certainty with which it is transplanted; the strong vitality and freedom from disease and insects; the incomparable value of its timber; the almost imperishable nature of the wood when used for posts, railroad cross ties and other exposed situations, and the unrivaled beauty of its flowers, all points to the Catalpa as the tree to plant. The yearling catalpa should be cut off above the ground; it will then insure a straight and stronger growth the following season. The same treatment applies on soft and hard maples.  
Pkt. 5c; oz. 15c; lb. \$1.00

**COTTONWOOD.** A very quick growing tree. will grow anywhere, lumber not very valuable.  
Pkt. 5c; oz. 15c; lb. \$1.00

**PAWPAW.** Too small to be of any value for timber, but makes a fine ornamental tree and is also cultivated for its fruits, often called the Kansas banana, which when fully ripe is very delicious.  
Pkt. 5c; oz. 10c; lb. \$1.00

**PERSIMMON.** Native hardy trees. Wood very hard and fine grained. It bears a plum-shaped fruit which is very astringent when green, but edible when fully ripe.....Pkt. 5c; oz. 10c; lb. 80c

**WHITE ELM.** It is the largest of the native elms, often growing to the height of 80 feet. The wood is tough and valuable. It is well worthy of cultivation both for its wood and as an ornament.  
Pkt. 5c; oz. 10c; lb. \$1.00

**RUSSIAN MULBERRY.** Said to be the most valuable for our climate. It is largely planted by the Mennonites in the Arkansas valley mostly for the silk culture. It is easily cultivated, hardy, a good grower, and if kept in dwarf form will make a fine hedge. The berries of the Russian Mulberry are good for dessert. The tree makes good fence posts after five year's growth, and eventually make splendid lumber for cabinet work.  
Pkt. 5c; oz. 30c; lb. \$3.00

**YELLOW OR BLACK LOCUST.** This variety is noted for its rapid growth of hard durable timber. It is hardy and succeeds well in many parts of the country, while in some localities it proves a failure. It is worthy of a trial in any localities where it has not already been tested....Pkt. 5c; oz. 10c; lb. \$1.00

**HONEY LOCUST.** This is a large and handsome tree, the trunk and branches generally set with long and formidable spines, on which account it has been employed as a hedge plant. The wood is heavy and affords excellent fuel, but is not considered durable as timber. Has done well in our State wherever planted. Seeds ought to be scalded before planting.....Pkt. 5c; oz. 10c; lb. \$1.00

**OSAGE ORANGE.** A native of Texas, but has been generally introduced over the country, because of its extensive employment as a hedge plant. The best way to prepare the seed for planting is to soak it in a running creek until it commences sprouting then plant it like any other seed. Another way to sprout it is by putting it in a vessel, and covering it daily with warm water, until the sprouts come up. We prefer the first method. Proper time to sow in April or May....Pkt. 5c; oz. 15c; lb. \$1.00

**TREE CRANBERRY OR SNOWBALL.** Native. Small tree or shrub. Is ten or twelve feet high at maturity and produces its showy white flowers in large balls or masses in June.  
Pkt. 5c; oz. 25c; lb. \$3.00

**LILAC.** Well known flowering shrub, highly ornamental.....Pkt. 5c; oz. 10c; lb. \$2.00

**BLACK WALNUT.** One of the most valuable varieties for timber planting. A large tree of rapid growth. It delights in rich soil and luxuriates in our prairie loams or timber land clay. Its lumber has a very high market value and is becoming very scarce. Its nuts are a very well known article of commerce.....Lb. 10c; bu. \$2.00

**SHELL BARK HICKORY.** This species becomes a lofty tree eighty feet in height with a diameter sometimes of two feet. It furnishes most of the hickory nuts of commerce....Lb. 15c; bu. \$4.00

## EVERGREENS

**EUCALYPTUS GLOBULUS—BLUE GUM.** Remarkably quick growing, especially adapted to Southern States. It absorbs malaria and fever germs. Does best when started in seed beds, then transplanted to open ground. Height, 150 feet.  
Pkt. 10c; oz. 50c; ¼ lb. \$1.50; lb. \$5.00

We make a specialty of collecting Evergreen tree seed from the Rocky Mountain districts. Parties intending to purchase quantities will do well to write us for prices.

**ABIES CONCOLOR—Balsam White Fir.** A very handsome tree growing to a good size.  
Oz. 35c; ¼ lb. 90c; lb. \$3.00

**ABIES DOUGLASII—Douglas Red Spruce.** Rapid growing and ornamental, of pyramidal habit.  
Oz. 40c; ¼ lb. \$1.25; lb. \$4.00

**PICEA ENGELMANNII—Engelmann Spruce.** Similar to Colorado Blue Spruce, but grows larger with needles less rigid and sharp.  
Oz. 40c; ¼ lb. \$1.30; lb. \$4.25

**PICEA PUNGENS—Colorado Blue Spruce.** A most desirable conifer, with silvery foliage, for lawns. From selected blue trees only.  
Oz. 40c; ¼ lb. \$1.25; lb. \$4.00

**PINUS FLEXILIS—Lumber Pine.** A handsome tree of compact habit and dark green foliage. Wood white, soft and easily worked.  
Oz. 25c; ¼ lb. 75c; lb. \$2.50

**EUCALYPTUS TERETICORNIS—GRAY GUM.** A rapid grower and erect. Wood durable and useful for shingles, flooring, street paving blocks, etc., will last for ages. It is also a good honey producer. Height, 200 feet.  
Pkt. 10c; oz. 75c; ¼ lb. \$2.00; lb. \$7.00

**PINUS PONDEROSA—Yellow Pine.** Grows to an enormous size, with luxuriant foliage.  
Oz. 25c; ¼ lb. 75c; lb. \$2.50

**PINUS BANKSIANA—Jack Pine.** Gray Pine. This species of pine is the best adapted to sandy soils. It grows more rapidly than most conifers and is a useful small tree for wind-breaks. It is used for fuel and coarse lumber and when treated with chemical preservatives makes fair posts or ties.  
Oz. 50c; ¼ lb. \$1.50

**RED CEDAR.** Grows in all sections; very valuable timber; a fine ornamental tree. After properly planting out the Red Cedar requires less care and will stand more neglect than any other evergreen.  
Oz. 10c; ¼ lb. 30c; lb. \$1.00

**JUNIPERUS ARGENTEA—White, or Silver Cedar.** A native variety of cedar, with silvery foliage.....Oz. 20c; ¼ lb. 60c; lb. \$2.00

**JUNIPERUS MONOSPERMA—Dwarf Trailing Cedar.** A very hardy trailing evergreen.  
Oz. 20c; ¼ lb. 60c; lb. \$2.00

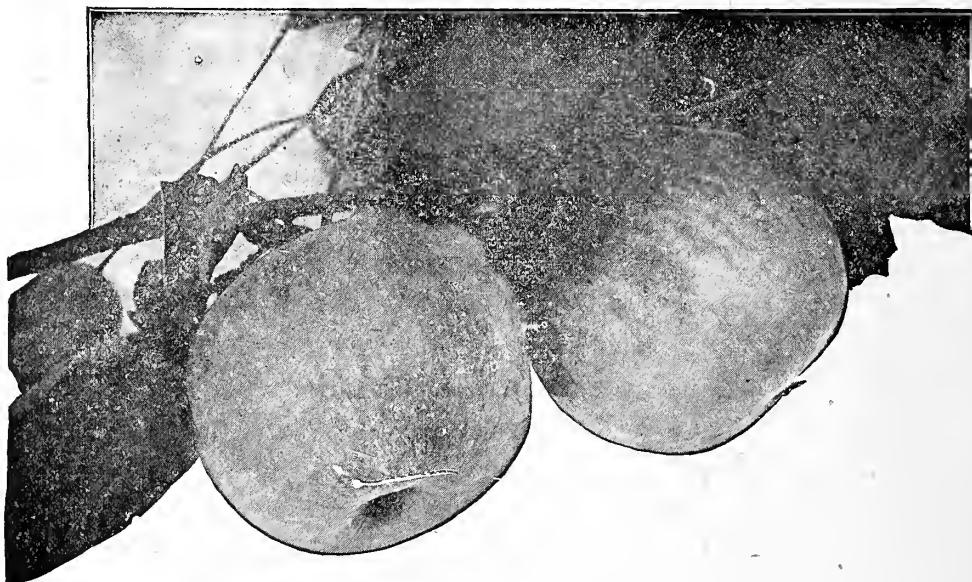
Ask for our pamphlet—The Growing of Deciduous Evergreen and Fruit Trees from Seed—sent free.

## FRUIT AND ORNAMENTAL TREES

We are giving special attention to nursery stock this season and it will pay you to investigate our line. We will furnish first-class stocks only and in ordering from us you will get the very best to be had.

**PRICES:** It is easily understood that the cost of producing stock is about the same for one nursery as for another. Where we have the advantage is in the cost of selling. Where you buy from an agent you have to help pay his salary or commission and also his traveling expenses. In buying from a Nursery mail order house you must help pay for the entire nursery catalog. As we are already printing our seed catalog it costs us very little more to include the nursery stock, and therefore our cost of selling is practically nothing. Take advantage of this and get first-class stocks at the very lowest possible prices.

**TERMS:** Our terms, as for seed orders, are cash with order, prices include packing in first-class manner and delivery at express or freight office here, purchaser to pay transportation charges.



### APPLES

#### PRICES OF ALL VARIETIES

|  |             |               |                 |
|--|-------------|---------------|-----------------|
| Standard—First-class, 5 to 6 feet.....   | \$0.40 each | \$3.50 per 10 | \$30.00 per 100 |
| Standard—2 years, 4 to 5 feet.....       | .35 each    | 3.00 per 10   | 25.00 per 100   |
| Standard—2 years, good, 3 to 4 feet..... | .30 each    | 2.75 per 10   | 22.00 per 100   |

**YELLOW TRANSPARENT.** A Russian apple of splendid quality. The hardiest and finest early summer apple grown. Ten days earlier than Early Harvest. Fruit large, pale yellow, sub-acid. This variety is one of the best market sorts.

**WEALTHY.** Highly valued for its extreme hardiness at the far North. Tree thrifty grower and good bearer; fruit medium; roundish; skin smooth, oily, mostly covered with dark red; flesh white, fine grained, juicy, sub-acid, good. September and October.

**STAYMAN WINESAP.** A seedling of Winesap, originating at Leavenworth, Kansas, with the late Dr. J. Stayman. Dark, rich red, indistinctly striped. Flesh firm, fine grained, crisp, juicy and very tender; rich sub-acid; quality the very best. Tree a stronger grower than Winesap; a drought-resister, and will thrive on most any soil. A more regular bearer than Winesap, hangs longer, and keeps fully as well and in quality is far superior.

**ROME BEAUTY.** Tree thrifty, upright grower, fruit large to very large, roundish, oblate, sometimes conical; surface smooth, pale yellow, striped and mixed with red; flavor sub-acid, not rich; quality good; desirable market fruit on account of its productiveness and fine appearance. November to January.

**GRIMES' GOLDEN.** This is one of the best popular apples in cultivation. Tree strong, thrifty grower, with spreading branches; fruit medium or above, cylindrical, regular surface, yellow veined, russeted, flesh yellow, firm, very fine grained, juicy, flavor sub-acid; quality rich; for dessert, cooking and market.

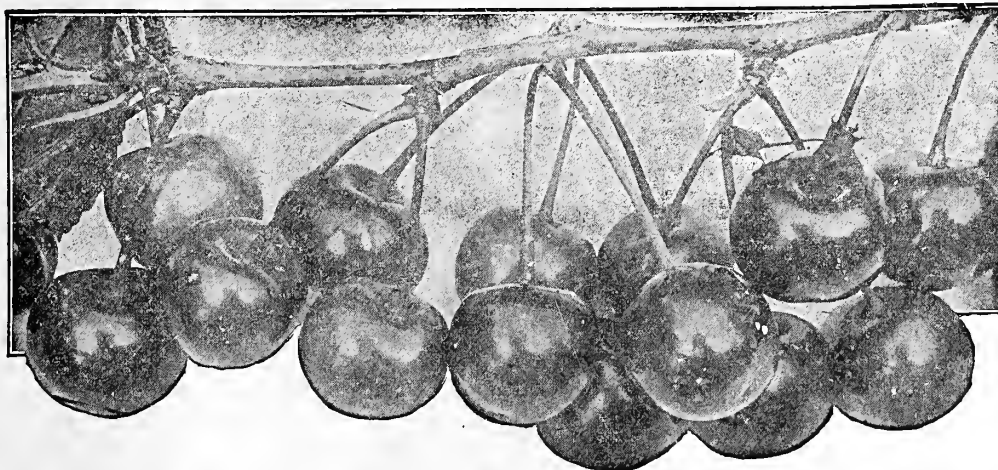
**MAIDEN BLUSH.** This is the favorite Fall Apple tree, vigorous, upright, spreading, very productive; fruit medium to large, flat and very handsome; surface smooth polished, pale waxen yellow, with rich blush; flesh white, fine grained, juicy; quality good; for cooking, table and market. August and September.

**JONATHAN.** Tree of rather slender growth and spreading habit, fruit medium or above in size, round or oblong; surface very smooth, waxy yellow; often wholly covered with brilliant red; flesh whitish-yellow, tender, very juicy, for dessert and cooking; also one of the most profitable market apples; quality best; a genuine favorite. October and November.



# FRUIT AND ORNAMENTAL TREES—Continued

## CHERRIES



### PRICES OF ALL VARIETIES

Standard—2 years, first-class, 5 to 6 feet.....70c each; \$6.00 per 10  
Standard—2 years, well branched.....60c each; 5.00 per 10

**ENGLISH MORELLO.** Medium to large, roundish; dark red, nearly black when ripe; flesh purplish red, meaty, juicy, slightly astringent and good; very productive. August.

**LARGE MONTMORENCY.** Large, round, slightly heart-shaped; dark red, becoming nearly black when fully ripe.

**OSTHEIMER.** Large, heart-shaped, almost black when ripe; full of purple juice, exceedingly rich less acid than English Morello; good dessert and unsurpassed for kitchen uses. Very hardy and blooms late

## PEARS

Standard—First-class, 5 to 6 feet, 2 and 3 years.....60c each; \$5.00 per 10

Standard—Medium, 4 to 5 feet, 2 years.....50c each; 4.00 per 10

Dwarf Pear—First-class, 4 to 5 feet.....60c each; 5.00 per 10

Dwarf Pear—Medium, fine, 3 to 4 feet.....50c each; 4.00 per 10

Dwarf Pear—Light, 2 to 3 feet.....40c each; 3.00 per 10

### STANDARD PEARS

**BARTLETT.** S. and D. An old favorite, more generally known and highly esteemed than any other sort. Tree thrifty, upright grower; fruit large, irregular, pyramidal; skin thin and smooth, clear yellow, sometimes with faint blush on the sunny side; flesh white, fine grained, buttery, juicy, sweet; quality best. August and September.

**FLEMISH BEAUTY.** Fruit large; skin a little rough, pale yellow, mostly covered with patches of russet, becoming reddish-brown at maturity on the sunny side; flesh yellowish-white, juicy and rich. September. One of the best.

**KIEFFER.** Very large, deep yellow with russet dots, juicy, sweet, coarse; immensely productive; fruit must be thinned to get the largest size. Fine for canning. Said to be blight proof. October and November.

Also: Seckel, Clapp's Favorite, Lawrence, Buerre de Anjou, Howell, Garber, Rutter, etc.

## PLUMS

1 year—4 to 5 feet.....40c each; \$3.50 per 10

2 years—First-class, 5 to 6 feet.....50c each; 4.50 per 10

2 years—Medium, 4 to 5 feet.....40c each; 3.50 per 10

**LOMBARD.** Perhaps the best of the European varieties now in cultivation. Tree vigorous, hardy and productive; fruit of medium size, roundish-oval, slightly flattened at the ends; skin delicate violet-red, paler in shade; flesh deep yellow, juicy and pleasant. August.

**IMPERIAL GAGE.** Large pale green, juicy, rich, sweet and excellent.

**DAMSON.** Fruit small, oval; skin purple, covered with blue bloom; flesh melting and juicy, rather tart, separates partly from the stone. September.

**GERMAN PRUNE.** A large, long, oval variety, much esteemed for drying; color dark purple; of very agreeable flavor. September.

## ORNAMENTAL TREES

|                               | Each   | Per 10  |                                 | Each   | Per 10  |
|-------------------------------|--------|---------|---------------------------------|--------|---------|
| Ash, American.....6-8 feet    | \$0.80 | \$ 7.50 | Maple, Sugar.....5-6 feet       | \$0.70 | \$ 6.50 |
| Catalpa Speciosa.....6-8 feet | .80    | 7.50    | Maple, Silver Leaf.....5-6 feet | .55    | 5.00    |
| Elm, American.....6-8 feet    | .75    | 7.00    | Maple, Silver Leaf.....6-8 feet | .75    | 7.00    |
| Box Elder.....6-8 feet        | .75    | 7.00    | Poplar, Carolina.....6-8 feet   | .75    | 7.00    |
| Linden, American.....6-8 feet | .75    | 7.00    | Poplar, Lombardy.....6-8 feet   | .75    | 7.00    |

## SMALL FRUIT PLANTS

Prices are for plants by express, not prepaid. Plants will reach customers in a better condition if sent by express.

We have facilities whereby we can supply from reliable growers the following stock:

### CURRENTS

**LA VERSAILLES.** Very large red, with long bunches.

**RED CHERRY.** An old favorite. Very vigorous and productive, though bunches are short.

Price, each, 20c; 5 for 90c; dozen, \$1.90, by express.

If by mail, add 30c per dozen for postage and extra packing.



RASPBERRY—MARLBORO

### BLACKBERRIES

**RATHBURN.** Hardy, wonderfully productive; medium size; sweet and juicy.

**ERIE.** Hardy and very vigorous; free from diseases; early, productive and large.

Price, each, 15c; \$1.40 per dozen; \$8.00 per 100, by express.

If by mail, add 20c per dozen for postage and packing.

### GOOSEBERRIES

**DOWNING.** A large handsome pale green. Splendid for both cooking and table use.

**HOUGHTON.** A small, roundish, sweet and tender berry. Enormously productive.

Price, each 20c; dozen \$1.90; by express. If by mail, add 30c per dozen for postage and extra packing.

### RASPBERRIES

If by mail, add 20c per dozen for postage and extra packing.

**GREGG BLACK CAP.** A large, black raspberry of excellent quality, very productive and hardy.

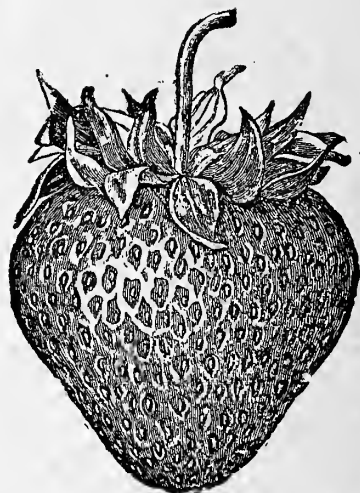
**CUTHBERT.** A remarkably strong, hardy and very large variety. Stands our winters well by covering. Berries are large, rich crimson.

**MARLBORO.** Large size, early, light crimson color; very fine and hardy. An excellent variety for shipping. Price for either, 12 for 60c; \$3.50 per 100; \$20.00 per 1,000, by express.

### STRAWBERRIES

The following varieties have all perfect flowers and will succeed in any soil that is adapted to ordinary garden crops. They are best adapted to Colorado and the entire West. **Jucundas, Captain Jack, Senator Dunlap, Aroma, Shipper's Pride.**

Prices for any above varieties, not prepaid. Dozen for 20c; 100 for 75c; 1,000 for \$6.00. If by mail, add 10c per dozen; 30c per 100 plants. When by express plants are more satisfactory. Ready in April and May, also September.



STRAWBERRY—SENATOR  
DUNLAP

### SUPERB FALL OR EVERBEARING STRAWBERRIES

This new variety commences bearing in the spring and bears more or less all summer, then sets a heavy crop in the fall as late as October and November. If the blossoms are pinched off in the spring and early summer, the fall crop will be much heavier.

Prices, 12 for 50c; 100 for \$3.00; 1,000 for \$20.00.

### GRAPES

**Concord** . . . . . 10c each; \$0.85 per 10; \$ 7.00 per 100  
**Other Varieties** . . . . . 15c each; 1.30 per 10; 10.00 per 100

**CONCORD.** (Black.) Too well known to need much description; is considered by many to be the best all around grape grown; is extremely hardy, vigorous and productive, bunches large, compact; berries large and juicy, buttery and sweet; will succeed well almost anywhere.

**BRIGHTON.** (Red.) Bunch medium to large, quite compact, flesh rich sweet, and best quality, color dark crimson or brownish-red; vine vigorous and hardy.

**MOORE'S EARLY.** (Black.) Bunch large, berry round with a heavy blue bloom, quality said to be better than Concord; hardy and prolific; a good market berry; ripens about two weeks before Concord.

**NIAGARA.** (White.) One of the leading white sorts; bunch large, shouldered, compact; berry large, yellowish-white, juicy, vinous and sprightly, quality good; skin tough, making it a good shipper and market berry.

When large quantities of any above are wanted, write us in regard to same.



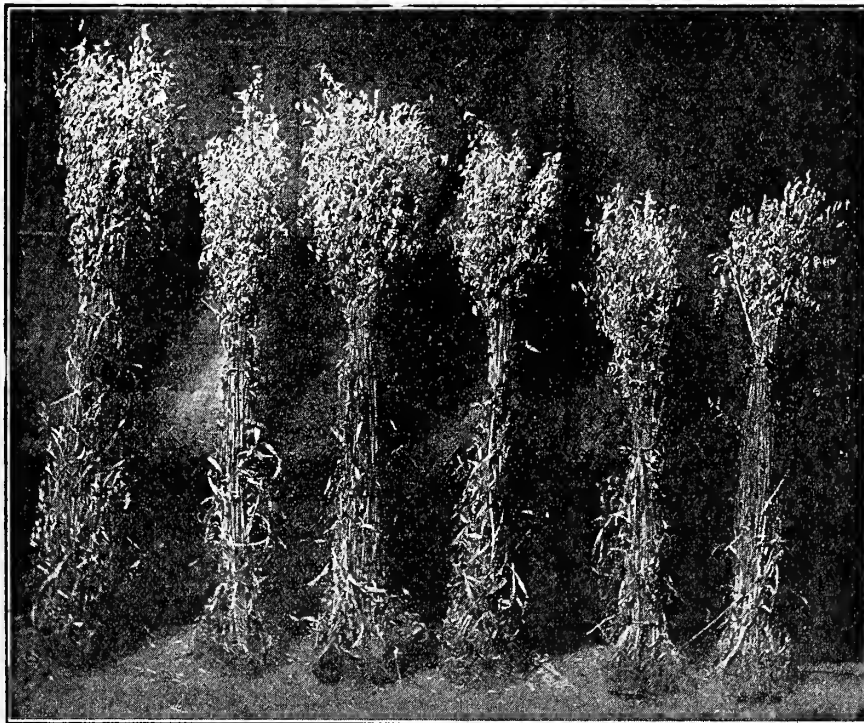
## FIELD AND FARM SEED DEPARTMENT

The prices of all Field and Farm Seeds are those ruling January 1, 1918, and are subject to change. As far as possible we will fill all orders at prices quoted, but if market values will not permit, we will send all that money remitted will pay for. Our latest price list will be sent free for the asking.

We have grain and field seed specialists in our employ who are familiar with conditions throughout the West, and are ready at any time to give you valuable advice as to what to plant and how much to plant, or in fact, anything about your farm. If our catalog does not tell you all you want to know just let us know what you want and we will gladly tell you.

We give special attention to our Grain Seeds, procuring from reliable growers who select for seed. Our process for cleaning is nearly perfect. When grain seeds are shipped in seamless sacks we charge **50 cents each extra**. Price for all varieties, except where noted, **4 lbs. for 25c**. For larger quantity ask for our latest pink price list, sent free.

If wanted by mail, add postage.



NEW MARKET, SWEDISH SELECT, 1,000 TO 1, KHERSON, RED RUST-PROOF.

### OATS

No crop gives better results by change of seed than oats. If you have been re-seeding the same strain for several years, now is the time to change. Do not compare our select strains, re-cleaned, with the common oats frequently offered as seed oats.

Sow 50 to 65 lbs. per acre; on dry land 30 to 35 lbs.

**NEW MARKET.** Is one of the most desirable oats to raise. It grows very erect on large, stiff, nutritious stems, producing long heads filled with large, handsome, soft, bright colored kernels, which do not get hard and tough as most oats do. It is early, maturing a good crop in 116 to 120 days at 6,700 feet altitude, and a good yielder. We recommend it very strongly.

**SWEDISH SELECT.** A very hardy variety, specially recommended for the North. Owing to its great root development it withstands drought very well. The grain is short, plump, white and very heavy, averaging 40 lbs. per bushel.

**NEW KHERSON.** It is one of the earliest oats grown and is sometimes called "90 day oats," as it has ripened crops in 80 to 90 days. It is the very best variety to grow in the mountains or in short season districts. The plant is vigorous, but of a dwarf habit, straw being shorter than other varieties; the leaves are broad and expose a large surface. The panicles are spreading and the berries are light yellow, small but numerous and have a very thin hull. It is a good cropper and generally weighs well per bushel.

**RED RUST-PROOF.** Not extensively grown, though highly recommended by those who have grown it, and is now becoming popular in Kansas, New Mexico and in Southern Colorado. It is a sure cropper, a heavy yielder, rust-proof, and perfectly hardy. In some localities it is sown in fall similar to winter oats.

**WHITE RUSSIAN OR SIDE.** This oat differs from the above varieties in being a side or horse-mane oat. Many growers report a much heavier yield from these side oats than from other varieties. It is from ten days to two weeks earlier than most kinds. Originally from Russia, it is now perfectly acclimated and is one of the hardiest of all oats, giving a big yield with very little moisture.

## BARLEY

Sow 60 to 90 lbs. per acre; on dry land 40 to 50 lbs.

### White Hulless Barley or Naked, Beardless Barley



BEARDLESS BARLEY

This has proved to be the most valuable barley to the stock raisers. It is not a malting variety, but for feeding purposes no other barley can compare with it in earliness, yield and quality. The absence of beards make it safe to feed to all kinds of stock. It will mature in 70 to 90 days, according to locality. It is sometimes used as a catch crop. It is very hardy and a great drought-resister, having matured crops in same fields where wheat failed entirely. The grain is very heavy, weighing from 60 to 63 lbs. to the measured bushel. It will yield from 35 to 70 bushels to the acre. Its nutritive value is so great that 2 quarts is almost equal to 4 quarts of oats. It is also very valuable for feeding poultry, hogs, etc. It is often grown for hay, coming early and providing rich feed. It should be cut just before it becomes ripe and while the straw is green. In this condition it is relished by all kinds of animals. The straw is stiff and straight and seldom if ever does it lodge. Grows very rank and vigorously and thrives even at altitudes of 8,000 to 9,000 feet. As there is a species of Naked Barley, which has a beard, be sure to get the light colored Barley if you want the beardless. On account of its rank growth it requires less to sow an acre.

**WINTER BARLEY.** This is the hardiest and most prolific barley grown, yielding from 50 to 75 bushels of grain per acre. The heads are long and bearded and berries are large. It makes one of the best pastures for fall and winter grazing. As it is not quite as hardy as winter wheat, it should be sown as early in the fall as possible to insure a strong growth before very cold weather. It matures 8 to 10 days earlier than winter wheat. Sow about 80 to 90 pounds.

**CALIFORNIA, OR FEED BARLEY.** This is a very hardy kind, producing very large, coarse, bearded heads and an abundance of fodder. It is used extensively in California, and is an excellent grain producer in Colorado. It is not used for brewing but makes the best of green feed. Stockmen are demanding it.

**SCOTCH**—Both 4 and 6-rowed. This is the staple variety for brewers. It is good for feeding, not having as long beard as some other kinds. The objection of beard for feeding can be prevented to a certain extent by cutting when the grain is in the dough.

## SPRING WHEAT

Sow 60 to 80 lbs. per acre on irrigated land;  
40 to 45 lbs. on dry land

### Pedigreed Regenerated Defiance Wheat

The strain of Defiance Wheat, which was so much improved by Prof. A. E. Blount, of the Colorado Experiment Station, some 20 years ago, has now lost most of its good qualities through lack of seed selection, careless methods of threshing, seeding, irrigation and following grain with grain.

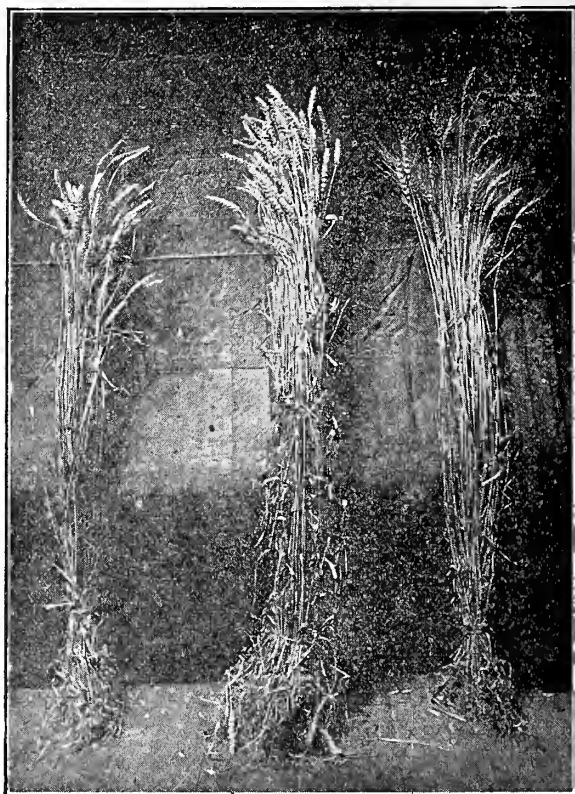
Prof. Blount, during his period of improvements, had increased the size of heads from 3 inches to 5 inches and the number of kernels from 21 to 43 on an average.

In 1903 Mr. A. H. Danielson, Assistant Agriculturist at Colorado Agricultural College, having found a stock of pure Defiance wheat left by Prof. Blount, started again the growing of improved Defiance Wheat, and we were fortunate in being able to secure a small amount of the genuine Regenerated Defiance Wheat, which we have kept pure and up to the standard of our original stock. This wheat is re-cleaned and graded in our own mills and will give you the best results.

**BUY REGENERATED DEFIANCE WHEAT** and increase your profits as the yield will not only be larger, but the better grade of grain will command a much higher price.

Prices, 10-lb. sealed sack, 65c; 25-lb. sealed sack, \$1.00.

Ask for market price on large quantity.



BLUE STEM, REGENERATED MACARONI  
DEFIANCE



## SPRING WHEAT—Continued

**DEFIANCE.** Ordinary stock, good seed and cleaned, but not to be compared with our Blount's Regenerated Defiance.

**BLUE STEM.** This variety has no beard and is very productive. The green stems have a beautiful blue color which disappears as the wheat ripens, when the stems and straw assume a golden-yellow hue. It is free from rust and its kernel is hard.

**MACARONI WHEAT "Kubanka."** The wheat for dry farming. This wheat leads all others for our Western country as it not only resists extremes of weather, but will mature a good crop where other kinds fail entirely. It grows so rapidly and strong as to get well ahead of the weeds and does well on poor ground. The berry is very hard, glossy and large, and will weigh as much as 63 lbs. per bushel. The head is compactly formed and bearded, the straw is very strong, the grain does not shell or bleach and this wheat is so hardy as to be almost smut and rust-proof. Not very desirable for milling, but unequaled for feeding.

**MARQUIS.** The "King of Hard Wheats" increases your yield five bushels per acre. It matures early, is beardless, heavy heads and short straw. It weighs 64 to 66 lbs. per measured bushel and has a smooth yellow chaff. The kernel is flinty, dark red and plump. Numerous milling tests show a higher percentage of gluten than any other variety. Quality and appearance unequaled. No safer or surer seed to plant. Order early, as supply is limited and demand is increasing every year. Write today for free samples and prices.

## WINTER WHEAT

Sow 30 to 35 lbs. on dry land.

**TURKEY RED.** This is the best winter variety for this part of the country. It is medium hard, bearded, and producing long heads. In color it ranges from dark to light red. The grain is large and less liable to shell out than most varieties. It stands drought and open winters very satisfactorily, and is a heavy yielder.

**SILVER KING.** Liked on account of being beardless. It is medium hard, light red, of good weight, heavy cropper and winters very well. Is growing in favor quite rapidly.

## SPELTZ OR EMMER

It makes a good crop with almost any condition of the soil and climate.

Sow 70 to 80 lbs. per acre; on dry land 40 to 45 lbs. It is neither wheat, rye nor barley, and yet it appears to be a combination of these. It is more like wheat than any of the others mentioned. For fattening cattle, poultry, horses, sheep, pigs, etc., it is claimed to be ahead of other grains, in fact, all kinds of animals seem to thrive on it. Speltz is claimed to be ahead of corn, superior to oats and more profitable than wheat. Yields 80 to 100 bushels of grain and as much as 4 tons of good hay per acre. Excellent for pasture and can be fed in the green state. As green grass hay food it often gives 100 leafy stalks from one seed, which shows its heavy stooling properties. The heads are somewhat similar to two-rowed barley, the spikelets being separated from each other in such a manner that the crop is not easily injured by the weather. Will grow well and produce enormous crops on land where wheat will not grow.

## IMPROVED WINTER EMMER

A NEW GRAIN FOR STOCK FEEDING

The original Winter Emmer was introduced from Russia by the U. S. Dept. of Agriculture. The Improved is larger, darker in color, heavier in straw and head, is much more hardy, and has larger stooling power than the original type.

It is one of the best drought and cold resisting winter grains. Many of the heads double the spikelets, giving the appearance of composite wheat; can be grown either by irrigation or by dry farming methods.

Sow at the rate of 1 bushel (40 lbs.) per acre, in September or October, that the grain may come up before freezing weather sets in. If you irrigate, do it before sowing or just before winter sets in. One or two harrowings in early spring will help the grain and it will be ready to harvest late in June or early in July. It should be cut before it gets too ripe and dry. Price, 15c per lb.; 3 lbs. for 30c

The original Winter Emmer is bearded but we can now supply a **Beardless Winter Emmer** which is identical to the original except it is beardless. Price, 15c per lb.; 3 lbs. for 30c

**WHITE WINTER EMMER.** This is the same as the Winter Emmer, but is preferred by some because of its color. Price, 15c per lb.; 3 lbs. for 30c

## RYE

Sow 60 to 80 pounds per acre; on dry land 30 to 40 pounds

**SPRING RYE.** Is a quick growing crop which will give a good early pasture and later on a good cutting of hay or a grand crop of grain. Please note that in ordering spring rye we offer what is furnished us as spring rye, but make no guarantee for same.

**FALL OR WINTER.** It is a good crop for early fall or spring pasture, as it keeps green a long time in the fall, and starts growing again as soon as the weather gets a little warm. Does well in any kind of soil. There is always a good market for good fall rye for seeding purposes.

**PETKUS WINTER RYE.** This variety of Winter Rye is exceptionally well adapted for growing on unirrigated land. The seed which we have in stock as we go to press with this catalogue was harvested from a crop grown on dry land this past season and which averaged 35 to 40 bushels per acre. The heads of this variety are from 4 to 6 inches long and very heavy. We certainly would urge everyone to give this wonderful winter grain a trial. 3 lbs. for 25c. Ask for prices on larger quantities.

## GRASS SEED MIXTURES

FOR MEADOWS AND PASTURES

It is a well ascertained fact that a thicker and more prolonged growth is produced by a mixture of many sorts of grasses that are especially suitable. Some sorts do best on high ground, and in dry weather; others prefer plenty of moisture. Some mature so early, and others so late, that from the beginning of spring until winter sets in there is no time when one species or another is not at its best.

In the matter of preparing the soil for pastures it is necessary to put the ground in the best condition possible to get the best results. The soil should be perfectly even after sowing the seed. You will find that cross harrowing will be to your advantage, as it has a tendency to scatter the seed more evenly. The following mixtures will be found desirable to use for permanent pastures, as they are properly proportioned for their different uses:

**For Wet Lands use Barteldes' Pasture Mixture No. 1.**

1 lb. to 10 lbs. at 25c per lb.; 25 lbs. at 20c per lb.

**For Light Sandy Soil use Barteldes' Pasture Mixture No. 2.**

1 lb. to 10 lbs. at 25c per lb.; 25 lbs. at 21c per lb.

**For Irrigated Lands use Barteldes' Pasture Mixture No. 3.**

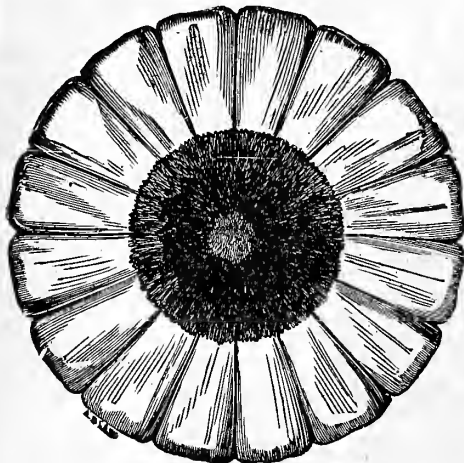
1 lb. to 10 lbs. at 25c per lb.; 25 lbs. at 20c per lb.

Sow liberally of either of above to get best results, using 30 to 40 pounds per acre. Ask for prices on large quantities.

## SELECTED SEED CORN

Postage, 8c per pound. 8 lbs. of the small kernel varieties or 10 lbs. of the large varieties will plant an acre.

**PRICES:** Liberal Packets, 5c; pound, 10c; 3-pound package, 25c. When wanting in large quantity ask for latest market prices.



**AUSTRALIAN WHITE FLINT.** (90 Days.) The earliest and surest variety we have for Colorado and the arid lands of the West. It will actually endure more drought and cold than any other variety known. Grows to a height of 4 to 6 feet, ears varying from 8 to 12 inches long, usually 8 or 10 rowed, one and two ears to a stalk.

**PRIDE OF THE NORTH.** (90 Days.) Planted as late as July 4, it has fully matured by October 1. The ears have from 14 to 16 rows, 8 to 10 inches in length, slightly tapering. The kernels are closely set together on the cob, of a light orange color. The stalks usually grow 6 to 8 feet in height, producing one or two good ears.

**SWADLEY.** (90 Days.) It is nearly as hardy as White Australian, and fully as early, and yields more matured corn. We are firmly convinced that it is the corn for uplands and worn out soils, where it produces 35 to 50 bushels of ears per acre. It stands drought nearly as well as White Australian. It is much softer kernel, being a pale yellow dent. The ears will average 8 inches long, 12 to 16 rowed. One-third of the crop will yield two ears on a stalk, maturing in 90 to 100 days. Six pounds of seed will plant an acre, 3 feet, 8-inch checkrows. This is the corn for our short season districts. Give it a trial, you will be pleased.

**COLORADO YELLOW DENT.** (90 Days.) An early Dent variety, ripening with the Flint varieties, and can be grown in almost any locality. Stalks large with broad leaves, ears 8 to 10 inches, 16 rowed, grain yellow.

**IMPROVED LEAMING.** (90 Days.) This is one of the earliest large yellow Dent corns in cultivation, ripening in 90 to 100 days from planting. It is extra early, and not a hard, flinty corn. The ears are large and handsome, with deep, large grains; orange color and red cob. Used extensively for silage.

**CALICO.** (90 Days.) The earliest field corn grown. Growth rather short, but stalks are very leafy. The ear is small and long and grains are peculiar, some being red, blue and white on the same cob. Stands drought very well.

**SQUAW.** (90 Days.) Extremely early and of very dwarf habit; stands drought as good as White Australian; average length of ears, 7½ inches; seed of dark purple color and sugary; makes good roasting ears.

**CHAMPION WHITE PEARL.** (100 Days.) The stock is short and thick. The ear grows low on the stalk, from 10 to 12 inches in length, almost parallel throughout, of medium size, averaging 16 rows of grains. The grains are pure white, very deep, compact and heavy. The cob is small. It makes a superior quality of corn meal.

**IOWA SILVER MINE.** (95 days.) The stalk grows to a height of 7 or 8 feet, and set the ears about 3¼ to 4 feet from the ground. The ears measure from 10 to 12 inches in length and often weigh 1½ pounds. They are very uniform in size and shape, with 16 to 20 straight rows of deep, pure white kernels on a small white cob.

It is also one of the best silage corns, especially under irrigation.

**IOWA GOLD MINE.** (95 Days.) Similar to above, except in color, which is a bright golden yellow.

**HICKORY KING.** (110 Days.) This new white corn is entirely distinct from all other varieties, having the largest grain with the smallest cob. It yields greater, and is unquestionably the most productive white field corn. Stalks bear two good ears each, and occasionally three. It never has barren stalks, no matter how thin the soil, and both ends of the ear are filled out full.

**GOLDEN BEAUTY.** (110 Days.) The ears are of perfect shape, with from 10 to 14 straight rows of bright golden yellow grains, remarkable in size and filled out completely to the extreme end of the cob. The richness of color and fine quality of grain make it vastly superior for grinding into meal.

**BRAZILIAN STOOING FLOUR.** This corn stools like wheat, each kernel producing from five to eight stalks, each stalk bearing two or three ears, five to seven inches in circumference, nine to twelve inches in length, color beautiful white. It is one of the best varieties for ensilage. It yields four times more fodder to the acre than common corn, and more bushels in shelled corn. It contains a much larger quantity of starch than any other corn and, ground and bolted by the same process as wheat, gives a finer flour for bread, biscuits, etc., than that made of wheat flour; also used largely for roasting ears. Four pounds will plant one acre.

**EUREKA ENSILAGE CORN.** This is the very best corn for ensilage. It stools like wheat, grows 6 to 10 feet high with an abundance of leaves; is sweet, tender, juicy, and contains more nourishment than other corns. If planted at the proper time and under ordinary conditions, makes more fodder and ensilage than any other variety, and it matures to the ensilage stage before frost.

### POP CORN

|   | Pkt.   | Lb.    | 3 lbs. |
|---|--------|--------|--------|
| <b>WHITE RICE.</b> Kernels long, pointed, and resembling rice | \$0.05 | \$0.15 | \$0.40 |
| <b>QUEEN'S GOLDEN.</b> Yellow seed, pops very large           | .05    | .15    | .40    |



## GRASSES FOR PASTURES

Postage 5c per pound extra.

We have men in our employ who make a study of grasses adapted to our Western country. Write us about your soil.

Particular attention is given to our Grass Seed Department. These seeds are selected with special reference to quality. Every exertion made to furnish Grass and Field seeds, fresh, pure and free from noxious and foreign seeds. Our Red Clover, English Blue Grass, Timothy, Alfalfa, etc., are all re-cleaned by best machinery, to make them choice.

We cannot print prices of large quantities as they are subject to variations, but purchasers may depend on getting them at prices ruling that date.

Market prices of the day or special prices on large lots cheerfully given on application. Express or freight charges always to be paid by the purchaser, except if sufficient money is sent to prepay them. Two bushel seamless bags, with seed, 50c each.



ALFALFA

The picture shown above was taken in August, 1916, during the worst drought Kansas has had in many, many years. Neighboring fields of corn were entirely burned up but this field of Alfalfa was green and ready for the third cutting.

Alfalfa is now being grown in every state in the Union but it is in the Middle West where it has found its real home. Kansas has the largest acreage of Alfalfa, Nebraska is second and Colorado is third. The value of the Kansas Alfalfa hay crop in 1915 was \$28,500,000.

Hon. J. C. Mohler, Secretary of Kansas State Board of Agriculture, in speaking of Alfalfa, says as follows: "As a tame-hay plant it stands supreme in longevity, yields, feeding value, soil-building and economy, and in adaptability to wide variations of soil and climate."

Alfalfa not only produces a hay crop of from 3 to 10 tons per acre, a valuable seed crop, but at the same time enriches the soil on which it is growing. The U. S. Department of Agriculture says that in two years Alfalfa adds \$100.00 to the value of every acre on which it grows.

Alfalfa is essentially a dry land crop and will do well on any well drained soil. It will not do well on wet land as here the weeds get ahead of it and choke it out. Chinch bugs do not bother Alfalfa.

Alfalfa is sown either in the spring or in the fall and should be sown at the rate of from 15 to 20 pounds per acre on soil that is thoroughly prepared. The seed bed should be firm and moist. The surface should be loose, mellow and finely pulverized. The field should be as smooth as it is possible to make it and without depressions. Our Alfalfa Booklet gives considerable information in regard to sowing the seed and handling the crop. It is free for the asking.

Alfalfa is the most expensive crop to prepare for well, and to plant, that we have in Kansas, and it is at the same time our most profitable and certain crop when properly prepared for and when a good stand, free from weeds, is obtained on rich, fertile soil. Under these conditions the quality of the seed is of utmost importance. Poor seed may not only give you no stand, but it may do that which is many times worse, and that is, bring to your farm a host of noxious weeds.

We have been handling Alfalfa Seed since 1875 and handle it in very large quantities. Our men have been trained in the government laboratories and we know good Alfalfa Seed. Of all the carloads we handle the very best is selected for our "Columbine" Brand. This seed is then given special attention in cleaning and when you get this seed you get the very best to be had anywhere.

Price of Alfalfa Seed in quantities is given on our Pink List. In small lots it is 25c per pound with parcel post charges extra.

### TURKESTAN ALFALFA

It is claimed to be more hardy, enduring extreme cold and a wonderful drought-resister. One-quarter lb. 10c; lb. 25c. For larger quantities ask for price.

### GRIMM'S ALFALFA

Grimm's is the hardiest strain of Alfalfa known in this country. It stools very heavily and the value of this characteristic can hardly be overestimated, as it not only affords immunity from winter losses, but the protected underground buds are less liable to injuries from over-pasturing, or attack from grasshoppers. The spreading crown seems to be associated with a very much branched surface root system, in addition to the deep tap root. This makes surface moisture easily available. Lb. 60c. Ask for price on large quantity.

Inoculate Alfalfa and Clover Seed with Farmogerm for Best Results. See Page 104.

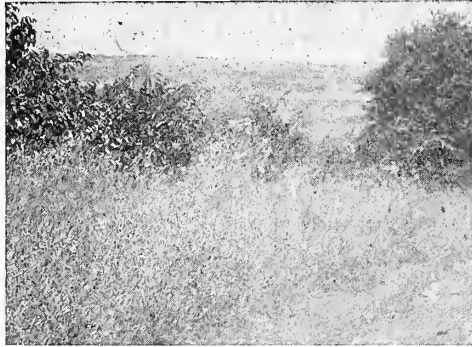
## CLOVERS AND GRASSES

### Klee-und-Grass Saaten

### Troboles y Gramineas

We print a pink list giving quantity prices of field seeds. We will send this gladly upon request. All prices are subject to market fluctuations. Our prices include sacks, but do not include freight or express charges, which must be paid by customers.

POSTAGE—On small lots please add 5c per lb. postage. On larger quantities add regular parcel post charges.



SWEET CLOVER GROWING ALONG  
ROADSIDE

### WHITE FLOWERED SWEET CLOVER

(Melilotus Alba)

Sweet Clover has suddenly sprung into popular favor. For a long time it had been regarded as a pest, but now a place has been found for it and in its place it is a very valuable plant.

Sweet Clover is valuable because of its ability to grow and thrive on the poorest and most barren places. It will not only thrive on soils that are too poor for any other crop but will improve the soil it is growing on. It makes good hay and good pasture, although cattle do not always take to it at first. It resembles Alsike Clover in that it can grow on moist soils.

Its ability to improve the soil, together with its ability to thrive on very poor soils, makes it especially valuable as a pioneer crop on poor, run down, badly washed fields.

The seed can be sown either in the fall or spring and about 20 lbs. of the hulled seed and 25 lbs. of the unhulled seed is required per acre.....Per lb. 20c

**ALSIKE CLOVER.** (*Trifolium Hybridum*.) Alsike Clover is especially valuable for growing on wet or swampy land. If you have a piece of land that is too damp for Alfalfa or other clovers or grass sow a mixture of about four pounds of Alsike Clover and ten pounds of Red Top Grass Seed. This will make an excellent crop of hay.

Alsike Clover is very hardy, is perpetual, will withstand drought and will not winter kill. About six to ten pounds will sow an acre and as the seed is very fine it should be covered only slightly. For bottom lands needing drainage but not subject to overflow an excellent mixture is as follows: Four pounds of Red Clover, two pounds of Alsike Clover and ten pounds of Timothy. This quantity is for one acre.....Lb. 30c

**RED CLOVER.** (*Trifolium Pratensis*.) Red or Medium Clover has long been considered the most important of the clover family. It is valuable both as a hay crop and a pasture crop and is also beneficial to the soil. It is a well known fact that grain crops will yield more when they follow clover. It is very valuable for enriching wornout soils but the trouble is that the soil is generally too much exhausted before the clover is sown. The better plan is to rotate your crops with clover so that the soil will not become too badly run down

The common mixture both for hay and pasture is eight pounds of Clover and ten pounds of Timothy per acre. To get the best hay Red Clover should be cut when just past the blooming stage, but in consideration of a second crop it is often necessary to cut the first crop a little sooner.

The selection of the seed is of greatest importance. Buckhorn is found in nearly all clover seed and is to be avoided whenever possible. Our Sunflower Grade is especially selected for purity and can be depended upon.

Red Clover will grow on any good corn land and when sown by itself the soil should be put in first-class condition. It can be sown either in the spring or in the fall, but as it is not drought resistant in the early stages the moisture should be conserved as

For Best Results, Inoculate Clover Seed with Farmogerm. See Page 104.

much as possible. It is generally sown broadcast at the rate of 12 to 15 lbs. to the acre....Per lb. 30c

**WHITE CLOVER.** (*Trifolium Repens*.) White Clover is excellent for pasture and is especially valuable for mixing with Kentucky Blue Grass both for lawns and pasture. A few pounds of White Clover should be in all permanent grass seed mixtures as it helps fill up the bare spots and is very nutritious. White Clover will disappear at the approach of very hot weather but will come back again with rains or seasonable weather. It is very hardy and is a perennial. Sow five to eight pounds per acre.....Per lb. 60c

**CRIMSON CLOVER.** (*Trifolium Incarnatum*.) An annual variety in common use in Italy and southern France for feeding green. Also largely grown in this country in Virginia. A good portion is now being used in Texas and adjoining States. Two to four weeks earlier than the Red Clover, and for that reason being more desirable. Immense yield of fodder. Commences to grow at once after cutting and continues to do so until after frost. Height 1 foot; roots nearly black, and blossoms long and of deep carmine color. Makes good hay. Sow in the fall in southern country. Sow 15 pounds to the acre.....Per lb. 20c

**BURR CLOVER.** (*Medicago Maculata*.) Is used mainly in the Southern States and California. Fills in the season when other forage plants have become dried up by the summer heat. Stock of all kinds feeds upon the burrs, which contain a large portion of nutritious matter. Sow 15 to 20 pounds per acre in August, September or October.

Per lb. 20c

**JAPAN CLOVER.** (*Lespedeza Striata*.) Low, perennial, spreading habit. Stands excessive drought well; flourishes on poorest soil in Southern States. Sow 15 pounds per acre. It makes a fair hay, and stock eat it readily when green. It is also valuable for turning under as green manure. Sow in spring broadcast at the rate of 30 pounds per acre.....Per lb. 25c

**FOR PRICES OF FIELD SEEDS SEE OUR PINK LIST. MAILED FREE ANY TIME**



## CLOVERS AND GRASSES—Continued

**PERENNIAL ENGLISH RYE.** (*Lolium Perenne.*) While this has long been highly esteemed in Europe and Australia, it has but recently been recognized by our Western ranchers. It is worthy of all the praise given. As a pasture grass it grows thick and withstands drought reasonably well. We have reports of its success as far south as Mexico City and in the far west, also in Old Mexico it is used extensively for lawns. Our new crop is carefully cleaned, and may be depended upon. For pasture sow in spring 25 to 30 pounds to the acre. For lawns 60 to 75 pounds to the acre....Lb.15c

**ITALIAN RYE.** (*Lolium Italicum.*) Surpasses the perennial rye grass in earliness and nutrition and rapid growth. Indispensable for alternating. Lasts only two years, and of no use for permanent pasture. Particular as to soil, a moist, tenacious, fertile and of medium consistency being considered the best. On such it is considered one of the best grasses cut green. Sow 30 to 40 pounds to the acre.....Per lb. 10c

**RED TOP GRASS.** This is especially valuable for sowing on sour or acid soils, swampy or meadow lands liable to overflow, and also on soils that are not rich enough for Timothy and other grasses or Clovers. Mixed with Alsike Clover it makes a fine crop of hay or excellent pasture. Red Top makes a very dense sod that will stand trampling and will continue to grow for a longer time during the year than almost any other grass.

On good soil it will grow two feet high, but it should be fed close, as when it grows up to seed cattle do not like it.

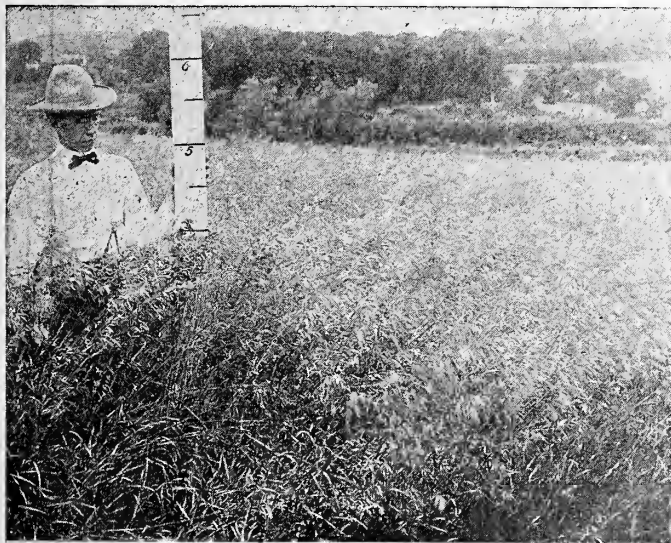
Fourteen pounds of solid seed should be sown per acre and it may be sown either in the spring or in the fall and with or without some small grain as a nurse crop.

To make the best quality of hay it should be cut when in full flower. It is more easily cured than any other grass.....Per lb. 20c

**BERMUDA GRASS.** (*Cynodon Dactylon.*) This grass has long been naturalized in the Southern States. While it will not stand extreme freezing, it resists dry, hot weather and consequently is a valuable grass to grow over and bind the most arid and loose soils; and will grow luxuriantly in every kind of soil. It is valuable for lawns, pasture and as a hay crop. Should be sown from April to June. Is used almost exclusively for lawns in the South. Sow 3 to 5 pounds per acre..... $\frac{1}{4}$  lb. 20c; lb. 75c

**CREEPING BENT GRASS.** (*Agrostis Stolonifera.*) Especially recommended for lawns in country homes, depending on irrigation. It flourishes where but little moisture is available. Very good for terraces and sloping ground.....Lb. 30c

**ORCHARD GRASS.** (*Dactylis Glomerata.*) No farmer should be without a small field of Orchard Grass as in many respects it is superior to all other grasses. It stands the drought, grows well in the shade, does well in wet or poor ground and is splendid to prevent worn out fields from washing. This grass furnishes excellent pasture three weeks before any other and after close grazing ten days' rest is sufficient for another growth. Cows fed on this will produce more and richer milk than on blue grass. It makes a very heavy sod and when well set remains for many years. It is especially adapted for winter grazing, as it remains green all season. It is well suited to sow mixed with alfalfa; an average of 12 lbs. orchard grass, 6 to 8 lbs. alfalfa seeds. Sow 20 to 25 lbs. per acre.....Lb. 25c



**BROMUS INERMIS OR HUNGARIAN BROME GRASS.** A Wonderful Drought Resister. A Grass for the Stock Raiser. All Cattle Like it. This pre-eminent drought-resisting grass stands at the head of all, and is destined to lead as the most satisfactory and valuable forage grass in all localities where arid soils demand a plant with ability to stand the drought. Stands intense cold equally as well. May be sown in autumn with winter wheat, or early spring. In Southern States sow in February or March, preparing lands as for other grasses. Blooms in North in June, and earlier in Southern States.

Its nature is to stool out, and thus does its best until the second season. It seldom produces seed the first year. Aside from Alfalfa no grass has fulfilled the promise to the Western farmer better than Bromus Inermis. It meets drought as well as wet and cold, and for Kansas we know of no grass to equal it. Many of our large ranchers are planting it extensively.

For hog pasture a mixture of Bromus Inermis and alfalfa, where the latter succeeds well, is recommended by Prof. Ten Eycke of the Kansas State Agricultural College Experiment Station, and he also suggests for large pastures for cattle a mixture of the following per acre: Bromus Inermis, 10 lbs.; Orchard Grass, 8 lbs.; Meadow Fescue, 8 lbs.; Red Clover, 1 or 2 lbs. added to the mixture. For worn out pastures he advises a disc early in the spring, following with a harrow and sow Bromus Inermis on the land, putting most on places where native grasses are most killed out.....Per lb. 25c



## GRASSES—Continued

**ESPARSETTE OR GERMAN CLOVER.** (*Onobrychis Sativa*.) Perennial, blooms in July. Same family as alfalfa, adapted to light chalky soils, stands gravel and barren regions deficient in rainfall. Shorter lived plant than alfalfa, but will last from 8 to 10 years, according to soil, by judicious top dressing of manure. It is excellent for cows, increasing flow and quality of milk. Would advise early and heavy seeding. Follow with roller. Sow seed 2 inches deep and from 30 to 40 pounds per acre.....Per lb. 25c

**MAMMOTH SAPLING OR PEA VINE CLOVER.** Being a rank grower makes it most valuable for fertilizing purposes. Foliage, flower and stem much darker than common Red Clover, ripens later than the latter, about the time Timothy, Red Top and other grasses ripen, making thereby a much better quality of hay, when mixed with them. Sow 12 to 15 pounds to the acre.....Per lb. 25c

## HOW TO MAKE A LAWN

The ground should be dug deeply and thoroughly, then a good compost of decomposed and finely pulverized manure and rich loam spread over the ground. It would be well also to give a sprinkling of bone dust. Use a slanted tooth harrow and a light or medium roller until the soil is smooth, even and firm. Then sow the seed and harrow again and smooth off with a common garden rake. When the grass has grown 2 or 3 inches in height use a lawn mower set to cut a full inch above the ground; repeat the same as often as it grows to that height. The weeds and foul grass can be kept down and destroyed by the repeated mowing. If this is neglected they will spread and take possession of the soil, but when constantly clipped, the leaves and seed stalks are destroyed and the foul vegetation disappears.

One pound of Fancy Mixed Lawn Grass Seed, or "Columbine Grade" Kentucky Blue Grass is sufficient to thoroughly sow an area 10 by 20 feet, or 200 square feet. It should be borne in mind that in order to produce the best results grass seed for lawns should be sown at least three times as thickly as for hay.

As soon as the grass has become well established a dressing of good lawn Fertilizer is necessary to keep up that beautiful, fresh appearance.

## THE "DENVER" FANCY MIXED LAWN GRASS SEED

We have made the subject of lawns a study for many years and this mixture has been prepared and sold by us in all parts of the country, giving general satisfaction. In making a lawn care should be taken to use only the very best quality of suitable lawn seed, so as to produce a **soft, velvety, evergreen sod.**

Put up in sealed packages:  $\frac{1}{4}$ -lb. pkg. 20c; 1-lb. pkg. 30c; 3-lb. pkg. 85c; 5-lb. sack, \$1.30; 10-lb. sack, \$2.50.

Lawn Grass Mixture for shady places. Lb. 35c; 3 lbs. \$1.00; 5 lbs. \$1.60; 10 lbs. \$3.00; 25-lb. sack.

**KENTUCKY BLUE GRASS.** (*Poa Pratensis*.) This is the standard grass in America for lawns and also for pastures. Blue grass is the base of practically all grass seed mixtures. It is perhaps a little slower than some other grasses but when once established it is permanent. It thrives best on limestone land. Sow 25 to 30 pounds per acre for meadows and 60 to 80 pounds per acre or one pound for every 150 square feet for lawns.

Our Columbine Grade of Blue Grass is put up in sealed packages. Ask for **Columbine**. See pink list for prices.

**CANADIAN BLUE GRASS.** (*Poa Compressa*.) Produces a fine foliage of dark green color, and is more hardy than Kentucky Blue Grass. It is especially adapted to light, poor, dry soils and makes very satisfactory lawns. It has somewhat a creeping habit and does not need to be clipped as often as Kentucky Blue Grass. See pink list.

**TIMOTHY.** (*Phleum Pratense*.) As a crop of hay Timothy is probably unsurpassed by any other kind of grass. It is greatly relished by all kinds of stock, especially horses; yields more nutritious matter than any other forage plant or grass. Being an early grass it is well adapted to spring and summer grazing, too. Sow 10 to 12 pounds to the acre.  
Lb. 10c

**JOHNSON GRASS.** (*Sorghum Halapense*.) We find this grass winter kills in the Northern States. A perennial, a rapid grower with long cane-like roots; the leaf, stalk and pinnacle of this grass resemble those of sorghums. It is grown on any land where corn will grow. Ten pounds will sow an acre.....Lb. 30c

**WILD RICE.** (*Zizania Aquatica*.) An annual which sows itself in the fall about the middle of September, lies dormant in the winter, and in the spring commences to sprout as soon as the water gets warm, reaching the surface about the first of June. It grows very rapidly in 1 to 4 feet of water, reaches a height of 7 to 10 feet and ripens late in August or early in September. It does well along the shores of marshes, and makes good hay. In the South two crops can be cut and all cattle are very fond of it. It is universally used by gun clubs to stock their lakes, as it is one of the very best duck feeds.  
Lb. 25c; 5 lbs. \$1.00

**GIANT SPURRY.** This plant will flourish on sandy, worn-out soils where no other will grow. It comes next to clover as a fertilizer, and grows very rapidly. It is sown the latter part of March until June at the rate of 10 lbs. per acre. It germinates rapidly and is ready to cut in 7 to 9 weeks. It is readily eaten by cattle and sheep.....1 lb. 15c; 10 lbs. \$1.25

**THOUSAND HEADED KALE.** A tall variety with smooth leaves. Especially used for feeding stock and chickens. Furnishes lots of green feed. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c. Ask for price on large quantity.

For prices of field seeds see pink list, mailed free any time.



## FORAGE PLANTS

**DWARF ESSEX RAPE.** Main standby of the English farmer in raising choice mutton. Perfectly hardy and of remarkable fattening properties. Easily grown. One acre will pasture 36 head for two months, lambs will make a gain of from 8 to 12 pounds per month. Pigs and cattle are also extremely fond of it. A very rank grower and bears heavy manuring and high cultivation. Sow at intervals of several weeks and secure a supply of good feed. Sow in June. Rape should be fed in August, though if a first crop be cut about four inches from the ground an after growth would be useful later. Does well sown with oats. If soil is clear and clean sow broadcast, otherwise in drills, and cultivate same as corn. Poultrymen will do well to sow a small patch to feed green to growing chicks. Can be sown on wheat stubble, furnishing excellent pasture late in the fall. Broadcasted it takes 8 to 10 pounds to the acre.....Lb. 15c

**LUPINS.** When young the plants are good for sheep, yellow Lupins remaining green longer than white. One of the best plants for soiling. May be sown from April until July and succeeds well in the poorest soil.....Lb. 10c

**TEOSINTE.** Recommended as the most prolific forage plant yet introduced. The stalks containing much saccharine matter, are very nutritious. It can be cut several times during the season, yielding enormously. One seed will sometimes produce 20 to 60 stalks or shoots, and the warmer the climate the better it yields. Should not be planted until the soil is perfectly warm in the spring. Requires about 4 pounds of seed to the acre. Plant in drills three feet apart and two or three seeds every 12 inches in drill.....Lb. \$1.00

## LENTILS

A leguminous annual that flourishes in dry, sandy soil. Easily grown in Colorado. The dry seed is extensively used for soups and forms an important import article that can be produced in this country to a profit.....Lb. 15c; 5 lbs. 60c

**AUSTRALIAN SALT BUSH.** (*Atriplex Semibaccata*.) The department of agriculture of California recommends this very highly for planting on alkali soils. They claim thousands of acres of arid and alkali land have been reclaimed by the use of this plant. The plant is of spreading habit, branching freely and making a thick mat of stems and foliage. The plant needs some moisture to start a growth but when once started it can stand the hottest and driest weather. Should be cut and cured same as clover.  
Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

## SACCHARINE SORGHUMS

Cane or Sorghum is planted very extensively both for syrup and for fodder. It makes an immense amount of the finest kind of fodder which is relished by all kinds of stock. The Texas Seeded Ribbon and the Orange varieties are commonly used for making syrup, and the Amber and Red Top varieties for fodder.

Cane makes excellent pasture and when grazed down will spring up quickly again. It should be sown in the spring and will do well on thin land. Sown broadcast it requires from 1 to  $1\frac{1}{2}$  bushels per acre, and in rows from 6 to 10 lbs. per acre.

Cane will make a good crop of fodder if sown as late as the middle or even the latter part of July.

## TEXAS SEEDED RIBBON CANE OR GOOSENECK SORGHUM

This variety makes the most and the best quality of syrup. Growers who have used it for that purpose are enthusiastic about it. The stock is not entirely pure and both Goosenecked and straightnecked plants appear in the same fields.

**EARLY AMBER CANE.** This popular and well known variety is the earliest and makes the finest quality of amber syrup and sugar. Succeeds well from Texas to Minnesota.

**ORANGE CANE.** A well known variety adapted to the Southwest. It is from 8 to 10 days later than the Early Amber.

**RED TOP CANE.** Planted very extensively in the Southwest. Smaller than the other varieties, but makes a large amount of fodder.

**FORAGE OR FODDER CANE.** Cane seed is now grown to a considerable extent for stock feeding. It yields heavily. It can be raised anywhere, and is sown extensively in dry regions where grasses do not do well. Because of its sweetness it is greatly relished by cattle and horses and sheep. For forage sow 50 lbs. to the acre. Ask for Market prices.

## BROOM CORN

There are many farmers who make this a most profitable crop. One acre will produce 500 cwt. of brush and nearly 40 bushels of seed, which is almost equal in value to oats for feed. Requires soil similar to corn, same cultivation, but should be planted some later in the season. Put in ground in prime condition. We think that more of our Western farmers should grow Broom Corn for market. It is profitable. Frequently planted in drills  $3\frac{1}{2}$  feet apart, leaving 6 inches apart; 5 to 10 pounds to an acre.

**IMPROVED EVERGREEN.** This Broom Corn grows about 8 to 10 feet high, stands up well, and is entirely free from crooked brush. The fiber is long and fine. Its great value is that it will not get red in the field before it is cut, but is strictly a green variety of brush commanding high price.

**THE OKLAHOMA DWARF BROOM CORN.** Originated in Oklahoma. Most valuable strain grows here and in the Southwest. Quite distinct from all others in earliness. Of robust habit and extreme productiveness; brush long and well fibered, and is a drought resister. On new breaking it does splendidly, leaving the ground in prime order for fall wheat crop, only slight disking needed to prepare for seeding. Averages five feet in height, making it convenient for pulling brush. It is a great yielder; one of our Oklahoma growers reports several fields yielding 1 to 3 tons fine long brush; seeds may be left to ripen on brush without injury to latter, removing danger of heating from immature seed bins. Stalks make excellent fodder if cut at once after brush is pulled.

Seeds go at parcel post rates. Allow 5c per lb. for small lots and regular parcel post charges for larger quantities.

**FOR PRICES OF FIELD SEEDS SEE OUR PINK LIST. MAILED FREE ANY TIME**



**WHITE KAFFIR**

Courtesy of Kansas State Agricultural  
College

#### RED KAFFIR CORN

This grows taller than the white; the stalks are more slender, but more juicy and leafy. The heads are long, slender, compact, and grow very erect; they measure from 8 to 15 inches. The seed is red, smaller than that of the white, and rather hard and brittle. It does well on poor land and yields well. It ripens a little earlier than the white variety. It is highly recommended by the Kansas Agricultural College at Manhattan.

### DWARF STRAIGHT-NECK MILO

Dwarf Milo was thoroughly tested by the drought of 1916 and it stood the test. What would you have given last fall for a field of Dwarf Milo yielding about 50 bushels per acre?

The Original Stock Seed was obtained from the U. S. Department of Agriculture and has been carefully selected and acclimated. It differs from the Standard Milo Maize in being dwarfed, growing from 3 to 5 feet high according to the amount of rainfall, and it is straight-necked. The advantage of this straight-necked feature is apparent in gathering, feeding and cutting the heads.

This strain is earlier than Kaffir Corn and Standard Milo Maize. The yield is from 60 to 100 bushels per acre. This will stand great drought and for this reason is admirably adapted to dry land farming.

The Dwarf Milo Maize should be planted the same as Kaffir or Milo and cultivated the same as Indian corn. It can be fed in bundles or in head to work-horses, cattle and hogs. Stock seems to prefer it to corn, and it has a laxative effect on them, keeping them in good condition.

While our stock is especially selected for straight necks, owing to the constant tendency to revert to the crook-necked type, there will be a few crook-necked in the field.

## NON-SACCHARINE SORGHUMS

### THEY STAND DRY WEATHER

These varieties are especially valuable for their ability to withstand dry weather. Many farmers are trying, year after year, to raise corn when they would do much better by raising such crops as Kaffir, Milo, Feterita, etc. These varieties will all yield as much grain as corn, will make excellent fodder; but the best point is that they will make a good yield under conditions under which corn would burn up entirely.

It is a well known fact that when these grains are struck by dry weather they simply stop growing for the time being, and when they get more rain they go ahead and make their normal growth.

They make good material for filling silos and should be planted much more extensively, especially in the regions of deficient rainfall.

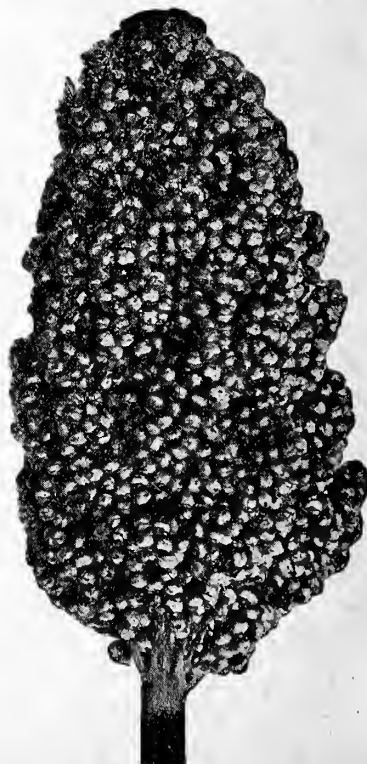
They should be planted in rows like corn, planting about five pounds per acre, and cultivating like corn. They will grow on any corn land and also on land too poor for corn. The crop should be cut and shocked when the seed begins to glaze.

### Feterita, Page 4

### Dwarf Black Hull White Kaffir, Page 99

#### WHITE KAFFIR CORN

It makes a straight upright growth and has a strong stem with enormous wide leaves. The stalks keep green and are brittle, making excellent fodder, either green or dried, which is highly relished by cattle and horses. The heads form at the top of each stalk. For the grain sow in rows 3 feet apart, 3 to 5 pounds of seed to the acre. For fodder sow one-half to one bushel, either broadcast or in drills.







## DWARF BLACK-HULL WHITE KAFFIR

There has been a constant demand the last four years for Dwarf Kaffir Corn. This year we are able to supply it. The value of the Dwarf Kaffir over the tall is apparent. In the first place the Dwarf Kaffir can be harvested with a grain header. By being able to harvest Kaffir in this manner a considerable saving in labor is effected. In the second place plants of dwarf stature expose less surface to the sun, and therefore can get along with less water.

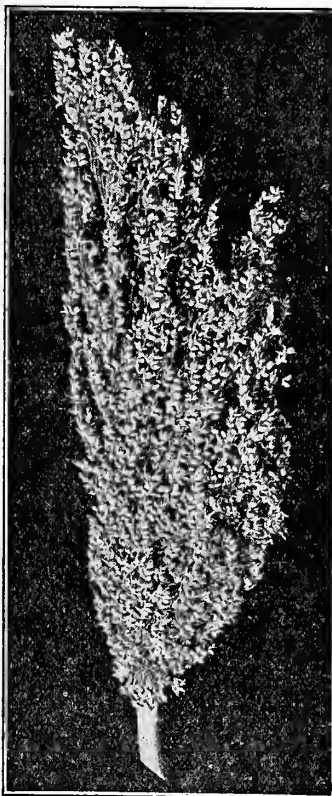
For prices see Pink List.

## SHALLU

This non-saccharine sorghum came originally from India, where it is extensively cultivated under the name of Shallu. It is frequently called California Rice Corn, California Wheat and Egyptian Wheat.

It came to us from California some five or six years ago. It is an excellent variety, but is not well known.

It grows quite tall and stools out from the root, a single grain producing from three to six stalks. The heads, as you will note from the photo, are quite large and have a lot of grain. The heads are similar to broom corn heads and are well filled with large, plump, round white seeds. It makes a lot of fodder and is quite drought-resistant.



SHALLU

It makes excellent feed for horses and cattle, and for chicken feed there is nothing better. It can be popped like Popcorn and pops out to a nice crisp kernel. When ground it makes excellent flour for pancakes.

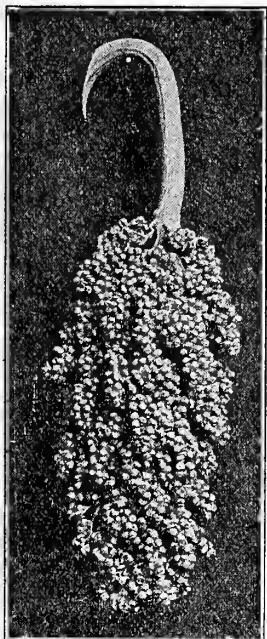
It makes good fodder but is more of a grain than a forage crop. It will form more seeds than any other variety of the sorghum family.

It should be sown in rows three feet apart, sowing 3 to 5 pounds per acre.

If sown for fodder only it can be sown broadcast at the rate of about 30 to 50 lbs. per acre. Every farmer should try some Shallu, and especially if he raises chickens.

Pkt. 5c; lb. 10c.

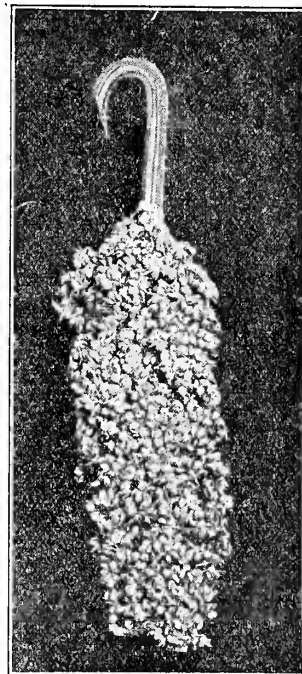
Postage 5c per pound extra.



MILO

**JERUSALEM CORN.** (White Durra.) It is pronounced the best and surest grain crop for dry countries and seasons, even better than Kaffir Corn, Dourrha and Milo Maize. It grows about five feet high, makes one large head on main stalk and several smaller heads on side shoots. Have seen as high as eight heads on one plant. The grains are pure white, and nearly flat. Three pounds will plant one acre.

**YELLOW MILO MAIZE.** (Milo.) Growth is tall, 9 to 12 feet, stooling from the ground, like White Milo Maize, but not so much. It sends shoots also from the joints. Seed heads grow to great size, often weighing  $\frac{3}{4}$  of a pound, sometimes a full pound, after ripening. On account of its branching habits this grain should be planted in rows 4 to 5 feet apart, and 2 to 3 feet in the drill, or 2 plants in a hill, 3 to 5 feet apart.

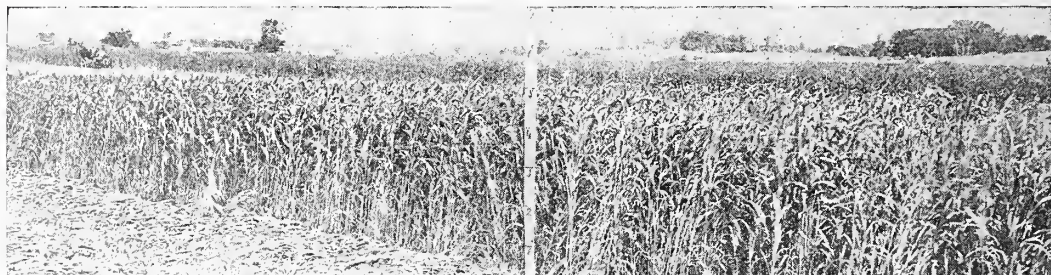


JERUSALEM CORN

**BROWN DOURRHA.** (Durra.) Similar to the Jerusalem Corn. Grain same size and shape, but of brown color instead of white, as the Jerusalem Corn. It withstands dry weather better than Kaffir Corn and Milo Maize, and is a sure cropper every year. Raised more for the grain than for the fodder. Yields immensely. Three or four pounds will plant an acre.

## MILLETS

**WHITE WONDER MILLET.** See under novelties



FIELD OF GERMAN MILLET. Courtesy of Kansas State Agricultural College

**COMMON MILLET.** It is an annual grass with juicy, tender and luxuriant leaves, much relished by all kinds of stock; makes good hay. Sow 25 to 40 pounds to the acre.....Lb. 5c

**GERMAN MILLET.** An enormous yielder. It has produced 4 to 5 tons of hay to the acre, and from 70 to 80 bushels of seed. It is sown in the spring on newly broken prairie, and after harvesting it leaves the ground in the finest condition for wheat. Sow 25 to 40 pounds to the acre.....Lb. 5c

**HUNGARIAN MILLET.** It is of fine growth and makes excellent hay. It has numerous succulent leaves, which furnishes abundance of green fodder, taken by all kinds of stock. Sow 25 to 30 pounds to the acre.....Lb. 5c

**JAPANESE MILLET** or "Billion Dollar Grass," as it is sometimes called, is of recent introduction, and great claims are made for it as to productiveness and value as a forage plant. Prof. Brooks, of the Massachusetts Experiment Station, is quoted as saying: "At our station it produces 60 bushels of seed, 11,297 pounds of straw, 36,000 pounds of green fodder, 12,000 pounds of hay per acre, being superior to good corn fodder in feeding for milk, and in combination with the soja bean makes a very superior ensilage." Recommended highly for feeding dairy cattle, young stock and sheep, being very rich in nutritious elements. If sown in the latter part of April will be ready to cut for hay by the middle of July. Attains a height from 5 to 7½ feet, according to season.

In drills plant 10 to 12 pounds per acre, broadcast 15 pounds per acre.....Lb. 5c

Put a top dressing of our bone meal on your pasture. The result will surprise you.

**COLORADO GOLDEN MILLET.** This is a cross between German and Common Millet with all the good qualities of both parents. It yields a great amount of seed and the hay is fine, juicy, with luxuriant leaves. It is harder than other millets, being perfectly acclimated to our Western country.

Lb. 10c; 10 lbs. 50c

**SILVER-HULLED BUCKWHEAT.** An improved sort, much excelling the old common variety, which it has about superseded with us. It blooms longer, matures sooner and yields double the amount per acre. Husk thinner, corners less prominent, and seeds of a beautiful light gray color. Flour made from this variety is pronounced better and more nutritious than others. Thirty to fifty pounds to an acre.

Lb. 10c; 10 lbs. 60c

**JAPANESE BUCKWHEAT.** A new variety that has been raised here with good results. Early and very productive, with kernels twice the size of any other buckwheat, of a rich, dark brown color and makes a superior flour. As it possesses a branching habit only half as much seed is required to plant an acre. Straw is very stiff and stands up well.....Lb. 10c; 10 lbs. 60c

**FLAX SEED.** Farmers should not lose sight of the fact that flax can be raised where wheat is raised and where tried has brought better results for amount of labor invested than wheat. Twenty to forty pounds will sow an acre.....Lb. 10c; 3 lbs. 25c

**MANITOBA OR HOG MILLET.** The seed is very rich and thus especially valuable as a hog food. A very much prized peculiarity of this millet is that the seed ripens while the stem is yet green, thus if cut promptly can be threshed for the seed, while the hay, after being threshed, will make excellent fodder. Sow same as other millet....Lb. 5c

**PEARL MILLET OR PENCILLARIA.** Immense-ly productive, 25 tons per acre. A native of Central America. It is an annual plant having long, broad foliage, and if allowed to develop fully will attain a height of from 10 to 12 feet, and bear numerous heads from 19 to 20 inches in length and 1 inch in diameter, completely covered with thousands of seeds, much relished by poultry. It is of rapid growth, throwing out from one plant numerous suckers, and if cut as soon as it reaches the height of 2 to 3 feet, it can be mowed from 4 to 6 times, according to the latitude, and yields several tons of hay to the acre. If allowed to grow 6 or 7 feet high, and cut when the flower heads begin to develop, it will yield the heaviest fodder crop per acre of any plant now in civilization. For feeding it is equal to any fodder, and is relished either green or dry, by all kinds of stock.....Lb. 25c

**SIBERIAN OR RUSSIAN MILLET.** It is claimed to be the most wonderfully productive and satisfactory forage plant, possessing in a superior degree all of the essential merits of any of the older sorts—exceeding them by far—besides many other points of excellence that distinguishes it and render it a most valuable addition to the list of forages. If the claims are well founded it is destined to take front rank, if not to lead all the rest.....Lb. 5c





## PEANUTS



TENNESSEE RED

### SAND VETCH

(Vicia Villosa.)

Sometimes called Hairy Vetch or Winter Vetch. This is one of the most valuable plants for forage and fertilizing purposes. It will succeed and make a good crop on poor, sandy soils and also a better crop on good land. It is perfectly hardy throughout the United States and remains green all winter. Vetch belongs to the same family as Alfalfa and Sweet Clover, and has the same ability to gather nitrogen from the air and store it in the root system. The roots are very extensive and add a good deal of valuable material to the soil. It thus improves the conditions and the productiveness of the land for the crops to follow.

It is an excellent catch crop, makes good hay, silage, and pasture. Vetch can be sown from July until November, and should be sown broadcast at the rate of about 30 lbs. per acre together with one bushel of either oats or rye. Vetch grows quite tall and needs the oats or rye for support. They then make a better growth, and are more easily harvested and cured. For a hay crop the Vetch should be cut just after the oats or rye has headed out. The yield of green fodder is immense. . . Lb. 25c

**SPRING VETCHES OR TARES.** Similar in growth to Sand Vetch, but for spring planting only. . . . . Lb. 15c

## FIELD BEANS

**TEPARY.** The new wonderful drought-resisting bean from Arizona—See Specialties, Page 4.

**WHITE NAVY.** The standard white bean, of medium size. Plant in drills, so as to cultivate with a horse; 25 to 30 bs. per acre. See market price list.

**PINTO BEANS.** This is the popular bean with the Mexicans and now is grown extensively throughout Colorado, New Mexico and Arizona. The yield is tremendous. See market price list.

**EARLY SOJA BEANS—Coffee Berry,** also called Soy Beans. Soja Beans are drought-resistant, much more so than cow peas, but will not do as well as them on poor ground. The berries ripen in about 3 or 4 months from the time of planting and produce a crop of 20 to 40 bushels to the acre, and

**Inoculate Peanuts, Vetches and Beans with Farmogerm.** See Page 104.

Seeds go at parcel post rates. Allow 5c per lb. for small lots and regular parcel post charges for larger quantities.

Until recently it was thought that Peanuts could be raised only in the South, but they are now raised as far North as Iowa. In the last few years Peanuts have become very popular for dry land farming. They are classed with Dwarf Milo and Feterita in their ability to withstand dry weather, and made good returns in the dry summer of 1913.

The tops of the plants make good hay, and in the Southern States it brings a very good price. The yield, even in dry seasons, is from one-half to three-quarters of a ton of hay and from fifteen to sixty bushels of nuts per acre. The whole peanut plant makes nice feed for forcing cows to a high yield of milk and for rapidly fattening cattle and hogs, especially when combined with grain of Milo. A common method of harvesting is to let the hogs gather the nuts.

The Spanish Peanuts are generally planted when wanted for farm use. The nuts are small but they stand dry weather better.

Peanuts do best in light sandy loam. They could be planted in rows from 28 to 36 inches apart and from 9 to 16 inches apart in the row. They need not be shelled but should be soaked in warm water for a day or so and then planted at once in warm soil. Planting should not be done until weather is good and warm. They should be cultivated and kept clean until they begin to peg or form pods. After that they should be left alone.

It takes from one peck to a peck and a half of shelled nuts and from a bushel to a bushel and a half in the shell to plant an acre.

**WHITE JUMBO.** This is the standard variety for roasting. The peanuts are three times as large as those of the ordinary Spanish peanut. The nuts proper grow in fine double-jointed hulls of beautiful white appearance, are from one-half to one inch in length, and of fine flavor. An excellent variety worthy of the highest recommendation. . . . . Lb. 15c

**SPANISH.** The earliest variety grown, pods are small, but remarkably well filled and solid, and the yield per acre is very large. Can be cultivated with the plow. Because of its early habit and easy cultivation it is the best variety to grow for fattening hogs. . . Lb. 15c

### CANARY SEED

As easily grown as wheat. Requires similar culture; 20 to 30 lbs. to an acre. We are in the market for the seed. . . . . Lb. 15c

**SUNFLOWER, MAMMOTH RUSSIAN.** Single heads measure 15 to 20 inches in diameter, and contain an immense amount of seed, which is highly valued by all farmers and poultry breeders who have tried it as an excellent and cheap food for fowls. For poultry it is the best egg-producing fruit known. It can be raised cheaper than corn, and is destined to be an article of great value. Every farmer should plant some of the seed in any waste piece of ground any time from early spring to the middle of July. Three pounds of seed will plant one acre. . . Lb. 10c; 3 lbs. 25c

### SUNFLOWER SEEDS FOR FEEDING BIRDS

We have suitable stock for feeding that we sell at reduced prices.

**JERUSALEM ARTICHOKE.** A well known vegetable produced from tubers like potatoes, which they resemble somewhat. Excellent food for stock. Do best in light rich soil, when an open exposure, but will resist any degree of cold incident to the United States. Planted like potatoes and as early as the ground will permit in May. Can remain in ground all winter as freezing does not hurt them. Yield up to 500 bushels per acre. . . . . Lb. 5c.

**HEMP SEED.** This is a crop that deserves more attention. The seed can be marketed with us. The fiber is in demand in the Eastern markets. . . . . Lb. 10c

are as easily grown as other beans. One bushel of Soja Beans is at least twice as valuable as corn for feeding purposes. When roasted and ground it closely resembles coffee and tastes quite similar.

Its great value to the farmer lies in the fact that when ground it makes one of the most valuable crops for feeding stock and adds greatly to the milk production. Being a rich, nitrogenous feed, it is unsurpassed as a flesh former, and like the clovers, is a soil improver, deriving its nitrogen from the air. Sow in drills 2 or 3 feet apart and 1 foot between plants. 30 to 40 lbs. will sow one acre. Do not cover more than 1 to 1½ inches deep. ½ lb. 10c; lb. 15c; 2 lbs. 25c; 10 lbs. 75c. See market price list for quantity.

**CASTOR OIL BEANS.** Common Ricinus are easily grown in the lower altitudes and southern part of New Mexico and Arizona. . . . . Lb. 15c

## FIELD PEAS

Can Be Grown in High Altitudes: Do Well Even at 9,000 Feet

**STOCK GROWERS EVERYWHERE SHOULD BE INTERESTED**

San Luis Valley is now feeding, wintering and fattening sheep and stock in greater number and at less cost than anywhere in the entire United States, simply with **FIELD PEAS**. San Luis Valley Peas have developed a wonderful and great industry.

**CULTURE.** Field Peas will grow on a variety of soils. Clay loams, if well supplied with lime, are best adapted; but excellent crops are grown on stiff clays. Light, sandy or gravelly soils are not so suitable for raising a crop of seed, since they are liable to dry out. Mucky soils produce a large growth of vine, but the yield of grain is small. While Field Peas do best when they have an abundance of moisture, over-wet soils are entirely unsuited to the crop.

Fall plowing is to be recommended as it allows early sowing the following spring, which is most desirable in this part of the country. Field Peas can be sown with a grain drill or broadcasted by hand. If sown for peas it is best to sow in drills 28 to 30 inches apart, which permits horse cultivation in the early stages of growth. In that case 40 to 50 pounds of seed is enough to sow an acre. If wanted for fodder or green manuring it is best to sow broadcast and use from 80 to 100 pounds of seed per acre. The depth of sowing varies from 2 to 4 inches, being deepest on light soils.

If the land has not been plowed in the fall the seed can be broadcasted immediately after plowing. The seeds fall into the depressions between the furrows and are usually well covered by the harrowing.

**VALUE.** The grain has a very high value, owing to its relatively high content of protein. It is more advantageous to grind it when fed to cattle; but does not need to be ground when fed to sheep or brood sows, in winter.

Pea straw, if well cured, is more relished by horses, cattle and sheep than the straw of other grain crops. In fact, if not allowed to become too mature before cutting, nor weather beaten in curing, it more nearly approaches clover hay in nutritive quality and palatability than ordinary straw.

Field Peas sown with oats or barley afford excellent pasturage for sheep and swine and make a better feed when cured for hay.

**FEEDING LAMBS OR HOGS** "Lambs or hogs to be fattened are simply turned in upon the peas and are given plenty of water to drink. The lambs eat the vines for roughness, and pick up the peas for grain. Eating the peas one at a time, as they have to, they eat more slowly and so avoid the danger of overfeeding. There is no waste by this method of feeding. The lambs pick up every spear of hay, and even paw the peas out of the ground, when they have been covered up by the trampling of many hoofs. Lambs will grow fat on ground where hardly a pea can be seen, or a spear of anything growing. The lambs are not fed any grain or any hay. They are shipped to market just as they come from the fields. Some growers reserve a small patch of peas upon which they turn their lambs to top them off, just before shipping, cleaning up this ground with a band of hogs after the lambs have been shipped. Hogs are often fed with lambs on the same patch of peas."

**FATTENING HOGS ON FIELD PEAS.** For hogs, the vines may be raked off and threshed for seed. The hogs pick up every pea from the ground, eat and digest it. Hogs may be run with lambs or cattle on pea ground to advantage. They eat and like the straw as well as the grain. Pork from peas is equal to that from corn.

**QUALITY OF PEA-FED MUTTON.** The mutton from lambs and sheep fattened upon peas is of a peculiar good quality. The lean meat is rich in color, the fat white, the flesh firm and of the best flavor. Pea-fed mutton tops the Chicago market when finished in good shape.

Threshed Field Peas pay about the same as a good grain crop, with much less expense.

### SAN LUIS VALLEY STOCK PEAS

They Can be Grown and Do Well at an Altitude of 9,000 Feet

**SAN LUIS VALLEY OR COLORADO STOCK PEA** is a hybrid, evidently the Golden Vine intermingled with the Native or Mexican Peas until now the seed has the appearance of a mixed sort, and is well acclimated to our climate, being very hardy, withstanding early frosts and growing until late fall, reaching a length of 4 to 6 feet. The vine continues to blossom as it grows, ripening peas on the lower branches and setting more pods above. The seed averages smaller than garden peas.

**TIME OF SOWING.** Being very hardy, the fear of rotting in the ground is not considered. The majority sow in April, although a pea-hay crop can be obtained if sown as late as July. Early sowing is best, giving full season for matured crop.

**QUANTITY TO SOW.** When early sowing is made, 40 to 50 lbs. of seed per acre makes a crop that covers the ground and produces good tonnage. If late sowing is made, 60 to 80 pounds per acre is advisable, as the crop does not get to matured growth. Thick sowing will aid in choking out weeds.

**HARVESTING.** If wanted as pea-hay the growth should be at the period when the supply of nutriment in milk is in the vine just forming the pod, cut and cured like ordinary hay. This makes finest feed for dairy cattle; in fact, lambs, sheep, hogs and cattle relish this hay. If the peas are desired as dry grain allow crop to mature and handle in shocks, threshing by machine after thoroughly dry. The dry seed can be ground into a meal or fed whole. They mature in from 70 to 90 days.

The Colorado Stock Pea does not exhaust the soil rapidly like some crops; quite the opposite, the nitrogen taken from the air is stored in the ground through the roots. The growing crop can be plowed under when partly matured—just in the milk—and makes an excellent fertilizer. Orchardists are learning this and consider the crop valuable for this purpose alone.

We advise all stock growers to plant liberally of Field Peas. We have supplied ourselves with seed of the **San Luis Valley**, re-cleaned stock, the Wisconsin grown **Green Canada Peas**, and the northern grown **Golden Vine**.

Prices for each above fluctuate. Lb. 10c. Write us when you are ready to buy in large quantity.

### WHIP-POOR-WILL COW PEAS

This is not exactly a pea, but more properly belongs to the bean family. It is becoming known in the North, also, as a highly valuable fodder and fertilizing crop. It requires a full season to mature. If desired the pods may be harvested for the grain and the plants plowed under to fertilize the soil. The seed or grain is ground and used for cattle feed; the stalk and leaves also make excellent fodder, fed green. Poor, sandy soil may be greatly improved by plowing under a crop of Cow Peas, and thus made into a fertile loam. Plant in a thoroughly pulverized soil. If wanted to plow under the manure, sow with a grain drill in drills a foot apart. If grown for fodder or the seed, plant  $3\frac{1}{2}$  feet apart and cultivate thoroughly. The seed must not be sown until the soil has become thoroughly warm. Sow from 60 to 90 lbs. per acre.

Lb. 10c

Inoculation with **FARMOGERM** will give you better results with your Field Peas. See page 104.



## HIGH-GRADE FERTILIZERS

### USES OF THE DIFFERENT INGREDIENTS

**NITROGEN** produces the green, rank growth of the plant; it makes more succulent and nourishing food; also forms the seed without which fruits could not develop. When properly supplied with the necessary Phosphoric Acid and Potash about 75 per cent of the Nitrogen goes into the grain and seed.

**PHOSPHORIC ACID** gives strength to the young plant in helping to expand its root growth and absorb the other necessary elements of plant food. It hastens and increases flowering and forces early maturity.

**POTASH** forms the cellular fibres, straw and woody growth of plants. It aids in producing sap, starch formation of grains, juiciness and sweetness of fruits.

### OUR BRAND OF MIXED FERTILIZERS

Prices subject to market changes. If wanted by mail add postage

These fertilizers contain in a concentrated form food necessary to grow nutritious farm products in large quantity per acre at lowest possible cost in time, labor and money. They are quick in action. Do not contain weed seeds and are easily applied. We have now put up for us special brands. If you order by these names you will make no mistake. You will be wise in ordering liberally.

**THE "DENVER" LAWN FERTILIZER.** This is a good article for the price, being made expressly for our trade. (Other makes called "Denver" are not our formula.) It contains 3 to 3½ per cent ammonia, 8 per cent available phosphoric acid, and some other rich plant foods, just the materials required to build up strong, vigorous grass shoots and make a luxuriant carpet grass. To get a good lawn begin early in the spring, rake over bare places and sow good seed, then apply the fertilizer by throwing it broadcast evenly at the rate of 50 lbs. to 1,000 square feet, after which soak with water. It is a Lawn Fertilizer of exceptionally high merits. . . . . 10 lb. pail 30c; 25 lb. sack 70c; 50 lb. sack \$1.30; 100 lb. sack \$2.50

**ROSE GROWER.** Made especially for roses and sweet peas, and without doubt the best fertilizer to use in a flower garden. For house plants use 1 teaspoonful to 1 quart of water; for outside use 1 teaspoonful for each plant twice during growing season. Always water plants thoroughly after putting on fertilizers. . . . . 10 lbs. 40c; 25 lbs. 80c; 50 lbs. \$1.50; 100 lbs. \$2.75

**OUR "DENVER" VEGETABLE GROWER.** After several seasons of experimenting with products from several leading fertilizer manufacturers, we have settled on this as our ideal fertilizer, for the grower of vegetables, also strawberries and other small fruits. It cannot be better for the price. Contains 3¼ to 4 per cent ammonia, 8 to 10 per cent available phosphoric acid. . . . . Price, 100 lb. sack \$2.25

**FRUIT AND ROOT CROP SPECIAL.** While this contains about the same per cent of ammonia as the Vegetable Grower, it has a greater per cent of available phosphoric acid, and likewise a greater per cent of Potash, making it quick acting, yet more lasting and especially suitable for strawberries and all small fruits. It is good for garden crops which require a full season, such as beets, carrots, onions, melons, etc.; also potatoes. . . . . Price, 100 lb. sack \$2.25

**SUGAR BEET SPECIAL.** This is the fertilizer that brings the greatest returns of any. The analysis indicates its quality. Having 3 per cent available phosphoric acid and 6 per cent sulphate of potash, it imparts to the sugar beet the very elements needed for the best results. It is likewise most excellent for fruit orchards. For increasing the yield of potatoes it has no equal. . . . . Price, 100 lb. sack \$2.75

**NITRATE OF SODA.** A fertilizer very quick in action and used for the nitrogen it contains. It creates rapid growth, is odorless, very quickly and entirely soluble. It is best applied when the plants are above the ground, usually in combination with other chemical fertilizers.

1 lb. 15c; 3 lbs. 35c; 10 lbs. \$1.00; 25 lbs. \$2.25; 100 lbs. \$8.00

**SULPHATE OF POTASH.** This fertilizer can be used for all crops; but especially for white potatoes, sugar beets, cabbages, celery and cauliflowers. It is the best form of potash to use in greenhouses; as it is powdered it dissolves quickly. Can be used dry or in solution 1 tablespoonful to 3 gallons of water.

1 lb. 25c; 3 lbs. 50c; 10 lbs. \$1.60; 25 lbs. \$3.50; 100 lbs. \$12.00

**MURIATE OF POTASH.** A form of potash salts used to make commercial fertilizers for grain, grass, fruits and vegetables. Containing about 50 per cent of potash.

1 lb. 25c; 3 lbs. 50c; 10 lbs. \$1.60; 25 lbs. \$3.50; 100 lbs. \$12.00

**ACID PHOSPHATE.** It is formed by treating some form of insoluble phosphate of lime, bones, etc., with sulphuric acid, and contains from 14 to 18 per cent of available phosphoric acid.

1 lb. 10c; 4 lbs. 25c; 10 lbs. 60c; 25 lbs. \$1.25; 100 lbs. \$4.00

**SHEEP MANURE PULVERIZED.** This is the strongest animal fertilizer as it contains ammonia, phosphoric acid and potash in liberal proportions. It produces immediate and lasting effect. It is convenient to handle and easy to apply. It is dried, pulverized and screened. It is one of the very best for lawns as the color is not conspicuous and there is no bad odor. . . . . 25 lbs. 40c; 100 lbs. \$1.00

**FINE BONE MEAL.** Decomposes rapidly and yet is available as a good fertilizer through second season after using. For use in greenhouses, also for growing plants, roses, etc., likewise lawns.

Price, 50 lb. sack \$1.40; 100 lb. sack \$2.75

**LAND PLASTER.** An old established fertilizer for grass and grain crops. . . . Price, 100 lb. sack \$1.10

Special prices will be given for any above fertilizers in 5 sack lots or more.

## WALKER'S EXCELSIOR PLANT FOOD



Just what your house plants need. It is odorless and it is safe to use. Dissolves readily in water, and takes the place of liquid manure. Each package contains full directions. A valuable booklet "The Window Garden," free with purchases if asked for. Price, 5-oz. pkg., enough for 20 plants three months, 20c; 12-oz. pkg., 35c.

## "STERLINGWORTH" PLANT FOOD TABLETS

A new, scientific, odorless fertilizer for house plants and vegetables. Contains nitrogen, ammonia, phosphoric acid and potash. Put up in two sized packages, suitable for mailing. The large size contains tablets (sufficient for 35 plants three months.) Price 25c, postpaid. Small or trial size contains 30 tablets (sufficient for 10 plants three months). Price 10c, postpaid.

**JAPANESE PALM FOOD.** One-quarter teaspoonful used once every two or three weeks until growth starts, and then once every six weeks, will produce a luxuriant foliage of rich texture on ferns, palms, rubber plants, etc. One of the strongest and best foods made for this class of plants. For repotting, one-half teaspoonful to a 6-inch pot is sufficient. One package contains enough for 30 plants for 3 months. Price, 25c.

# FARMOGERM

THE STANDARD INOCULATION

IS ENDORSED BY EXP. STATIONS AND AGR. EXPERTS EVERYWHERE

High-Bred Nitrogen-Gathering Bacteria

Makes Poor Soil Good Soil



It is now generally understood that the quickest, most economical and most permanent method of adding nitrogen to soil is to plant a leguminous crop of some kind after inoculating the seed with nitrogen-gathering bacteria.

**FARMOGERM** is offered for this purpose. It is a pure culture of a High-Bred Nitrogen-gathering bacteria. It comes in sealed bottles, having patented stoppers which allow the air to reach the bacteria, thus keeping them alive indefinitely, and unlike any other preparation of this kind ever offered before, it is all ready for use. Just dilute with water according to directions. The carefully selected, active bacteria in Farmogerm insure quicker and larger growth of the crop inoculated, and permanently enrich the soil for future crops. The theory of inoculation is recognized by authorities as the right solution of the nitrogen fertilizing problem. The problem has been to get the right culture.

We have a pamphlet which deals with the subject intelligently and at some length. Let us mail you a copy free.

Farmogerm is the right culture. 1 acre \$2.00; 5 acres \$7.50.

**FARMOGERM** is prepared for the following legumes: Alfalfa, Clover, Field Peas, Cow Peas, Soy Beans, Vetch, Peanuts, Garden Beans, Garden Peas and Sweet Peas.

Also for the following mixtures in one and five-acre sizes:

**No. 1**—Good for Red, White, Crimson, Alsike, Mammoth and Berseem Clovers.

**No. 2**—Good for Alfalfa or Lucerne, and Sweet Clover.

**No. 3**—Good for Vetch and Canada Field Peas.

**No. 4**—Good for Soy Beans and Cow Peas.

**No. 5**—Good for Garden Peas, Garden Beans and Sweet Peas.

**Garden size**, enough for  $\frac{1}{4}$  acre, put up in separate culture for garden peas, garden beans, sweet peas, and white clover. 50c.

**Garden size**, put up in mixed culture, good for peas, beans and sweet peas, 50c each.

**ALL-CROP FARMOGERM.** The new powder form containing 37 different strains of bacteria which will inoculate any legume crop. Though not so reliable as the separate cultures listed above, results from All-Crop Farmogerm will equal and surpass those obtained by using any other dry medium.

Prices, 1-acre can \$2.00; 5-acre can \$7.50

When ordering be sure and state for what crop Farmogerm is wanted.



## PEST EXTERMINATORS

**"KILMOL."** For getting rid of Squirrels, Gophers and Prairie Dogs on either a small or a large area. "Kilmol" will do the work in less time and at a lower cost than anything else we have tried, and at the same time its efficiency is from 95 to 100 per cent. "Kilmol" is a liquid which quickly vaporizes, making a gas that is deadly to rodents; besides producing asphyxiation it sets up an inflammatory action in the lungs and heart which causes death even if the animal should escape into the open air. It may be used by two methods; by saturating a waste ball which is then inserted in the burrow or by using a "Destructor"—an apparatus for forcing the vapor into the burrow. Either method is effectual, although the "Destructor" method is the quicker. Prices: "Kilmol" 1 gal. can \$2.00; "Kilmol" 5 gal. can \$8.50. Waste balls per M \$7.00; per C 75c.

"Destructor" for vaporizing "Kilmol," \$13.50 each.

### POISONED BARLEY

This grain is treated in such a manner that Squirrels, Gophers and Prairie Dogs cannot taste the poison. Sprinkle a little around the holes or hills and they quickly eat it, ridding your lawn or field of the rodents in a short time. A little goes a long way. Price, 1 lb. 50c; 5-lb. pkg. \$1.50.

### POISONED WHEAT

For exterminating prairie dogs, gophers, etc. 1-lb. carton 40c; 5 to 10 lbs at 35c per lb.; 100 lbs. at 25c per lb.

## GOPHERGO

(Machine Poisoned Raisins)



A sure death to gophers, squirrels, prairie dogs, rabbits, rats, mice and all other rodents. It is an attractive bait, thoroughly poisoned and guaranteed to do the work. Put up in 30c, 60c and \$1.15 cans. Directions on each can.

### RAT-NIP

Kills Rats Every Time

Rats cause more damage to property and are a greater menace to health than any other rodent. When once they get into a house or building it is a hard matter to rid the place of them. Rat-Nip will do the work thoroughly and with little expense or trouble. Simply spread Rat-Nip on a few pieces of bread and put it around the infested places. Rats like Rat-Nip—they can't resist it. Trial tube 15c; large tube 25c.

### ANT DRIVER

A non-poisonous powder which will kill or drive away ants from lawns. Box 35c.

### BUG DEATH—Powder

It will kill any bug or worm that attacks or eats the stalk, leaf, vine or blossom of any tree, plant, or vegetable that grows. It is so very fine powdered that it does not wash off except in some such extraordinary case as a cloudburst. It is not injurious to bird or animal life outside of bugs and worms. It kills or drives away ants without injury to the grass. Also it is very effective to prevent blight on potatoes, cucumbers, melons, tomatoes and other crops. A part of Bug Death mixed with 2 parts of bran and 1 part molasses spread around plants will attract Cut-Worms, which eat the mixture and die. 1 lb. 20c; 3 lbs. 55c; 5 lbs. 85c; 12½ lbs. \$1.35.

### CUT WORM KILLER—Powder

This preparation is quick and sure in effect and non-poisonous to domestic animals. It is so alluring to Cut Worms that they are irresistibly attracted to it and eat it in preference to any vegetation. Dead Cut Worms will be seen wherever there are Cut Worms and Cut Worm Killer has been used. One pound is sufficient for 175 plants, when in hills, and 150 lineal feet of plants when in rows. Price, 1 lb. Sprinkler Top Box, 35c; 5 lb. Tin Can containing Sprinkler Top Box, \$1.25.

### RAT CORN

This is a new and scientific discovery which kills Rats, Mice and Gophers, without any bad, dangerous or disagreeable odors or smells. It mummifies them; they simply dry up. A trial will convince you. 25c, 50c and \$1.00 cans.

### SULPHATE OF IRON—Powder

Will kill dandelions and all weeds having broad and hairy leaves without injury to grass. 1 lb. 10c; 4 lbs. 35c; 25 lbs. \$1.75; 50 lbs. \$3.00; 100 lbs. \$4.00

### STERLINGWORTH WEED KILLER—Powder

It is a powerful and effective compound. One application will destroy in 12 to 72 hours weeds, grass (including Milk Weed and Witch Grass), Briars, Dandelions, Daisies and all vegetation with which it comes in contact. One pound will make 15 gallons of solution. Price, one pound package, 60c

Prices Subject to Market Changes **INSECTICIDES** Poisons Cannot be Sent by Mail

### ARSENATE OF LEAD



An effective insecticide for leaf-eating insects and particularly suitable for very tender foliage, being perfectly safe to apply in any strength without danger of scorching. Will not wash off by ordinary rains. It is now the most popular and successful insecticide used in the popular fruit districts of Colorado. Use 6 lbs. to 100 gallons of water. Any of our spray pumps with fine nozzles will apply it. 1 lb. jar, 35c; 5 lb. pail, \$1.50; 10 lb. pail, \$2.80; 25 lb. pail, \$6.25; 50 lb. pail, \$12.00; 100 lb. keg, \$23.00.

**Powdered Arsenate of Lead.** 5 lb. can, \$3.75; 10 lb. pail, \$7.00; 25 lb. pail, \$16.25.

### APHINE—Liquid

A powerful insecticide which does not affect the most tender plants. Qt. can, \$1.00; 1 gal. can, \$2.50.

### BARTELDES' SMUT COMPOUND—Liquid

It is put up especially for us after our own formula and is very simple to use. One bottle is sufficient for one ton of grain. Directions on each bottle. Price, 50c.

### FORMALDEHYDE. "Barteco Brand"—Liquid

For the prevention of smut on grains; it is easy to apply. One bottle, diluted with 40 to 50 gallons of water is sufficient to treat thoroughly 30 bu. of wheat or barley for smut; 40 bu. of oats for smut; or 60 bu. of flax for wilt. 16 oz. bottle, 50c.

### INSECT POWDER

None better. Don't be deceived by any low-priced article.  $\frac{1}{4}$  lb. 50c;  $\frac{1}{2}$  lb. 80c; lb. \$1.50.



### HAMMOND'S SLUG SHOT—Powder

Recommended to destroy potato bugs and those on tomato and egg plants, currant worms, cabbage lice and worms, fleas, beetles and striped bugs on melons, turnips, beets, onions, etc., canker worms and caterpillars on fruit and ornamental trees. 1 lb carton 20c; 5 lb. pkg. 55c; 10 lb. pkg. \$1 00.

### HAMMOND'S GRAPE DUST—Powder

A readily diffusable, light weight powder, Fungicide, very efficient in destroying mildews and preventing blights in greenhouses and in the open; also effective in destroying Aphis and Black Fly. One lb. 15c; 5 lb. pkg. 60c.

### BLUE VITRIOL—Sulphate Copper

In crystals ready to dissolve, 1 lb. 25c; 4 lbs. for 90c; 9 lbs. for \$1.75. When wanting large quantity ask for prices.

Copper Sulphate Solution is made by dissolving 1 lb. of Copper Sulphate in 20 gallons of water.

### RED WING INSECT POWDER

A new, very effective Insect Powder for destruction of Roaches, Bed-bugs, Fleas, Moths, Ants, etc. The container is fashioned to form a bellows for applying the powder. Insect powder and bellows combined for 10c.

### BLACK LEAF "40"

A concentrated tobacco extract; very effective for spraying house plants or garden. 1 ounce bottle 25c

### PURE PARIS GREEN

Sealed pkgs.,  $\frac{1}{4}$  lb. 25c;  $\frac{1}{2}$  lb. 45c; lb. 75c. 2 to 5 lbs. at 70c lb.; 14, 28 and 56 lbs. at 65c lb.

**Paris Green Solution.** For small fruits, also for cherries, plums, peaches, apricots, etc., dissolve 4 ozs. Paris Green to 60 gallons of water, add to this 10 lbs. of fresh slacked lime. For apples, pear and all shade trees, 8 ozs. of Paris Green to 60 gallons water and 15 lbs. of lime. The lime is very necessary to prevent burning of the leaves; it also makes Paris Green more soluble.



### POWDERED SULPHUR

Lb. 10c; 4 lbs. 35c; 10 lbs. 75c; 25 lbs. \$1.50. Large quantities at market price.



### SULPHO-TOBACCO SOAP

This popular insecticide gives excellent satisfaction, and never fails to quickly exterminate all insect life on plants, flowers, shrubs, etc. It is cheap, effective, clean and harmless. 3 oz. cake makes  $1\frac{1}{2}$  gallons of prepared solution. 10c, by mail, 13c; 8 oz. cake makes 4 gallons, 20c, by mail, 28c.

### TOBACCO DUST

To drive off green lice in hot-beds. Lb. 10c; 10 lbs. 75c; 25 lbs. \$1.50; 100 lbs. \$4.80.

### LEMON OIL COMPOUND—Liquid

One of the cheapest, safest and most effective insecticides. Destroys all insects on leaves and roots of plants without injury to flower or foliage, leaving no foreign odor. Dilute with 30 to 50 parts of water.  $\frac{1}{2}$  pt. 30c; pt. 50c; qt. 85c;  $\frac{1}{2}$  gal. \$1.40; gal. \$2.25.

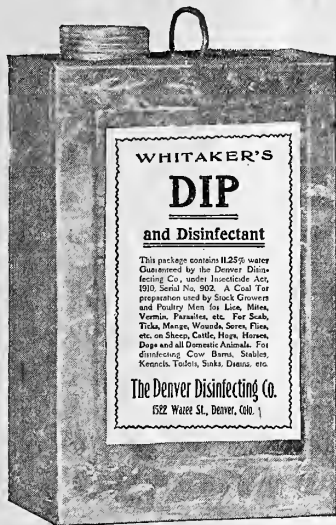
### NIKOTEEEN

A strong, concentrated solution of nicotine used for spraying and fumigating. In fumigating conservatories or greenhouses simply paint it on the steam pipes. For spraying, dilute one part Nikoteen with 600 parts water and apply with a spray pump. Very effective in ridding the garden of green Aphis. Red Spiders, etc. A  $1\frac{1}{4}$ -oz. bottle will make 8 gallons of solution.  $1\frac{1}{4}$ -oz. bottle for 40c; 1 pint bottle for \$1.50.





## INSECTICIDES—Continued



## WHITAKER'S (Coal Tar) DIP (Standardized) AND DISINFECTANT

Permitted by U. S. Gov. 1 to 69 for Sheep Scab.

A dependable and economical preparation for ticks, lice, fleas, flies, mange, scratches, footrot, wire cuts, wounds, sores, etc., on cattle, sheep, hogs, horses, dogs and all domestic animals.

Much cheaper and more convenient to use around stock than carbolic acid.

Used as a disinfectant, it destroys bad odors, flies, etc., and prevents disease. Owners of stock should keep a can always on hand. It will save a call on the veterinary in many cases.

Pints, 40c; quarts, 60c;  $\frac{1}{2}$  gals., 90c; gal., \$1.50; 5 gal. can, \$6.00. Prices in larger quantities on application.

## DEAD SHOT

A very effective preparation for destroying bedbugs, roaches, lice, moths, etc. Contains no corrosive sublimate, gasoline, etc. Will not injure wall paper, furniture, bedding, etc. Guaranteed to kill and to be absolutely stainless. Put up in 8-oz. cans, 25c; pts., 50c; qts., 90c;  $\frac{1}{2}$  gal., \$1.50; gal., \$2.50. Prices in larger quantities on application.

## CHLOROLEUM

This is one of the best preparations for use in disinfecting barns, corrals, chicken houses, hog pens, etc. It is a coal-tar preparation made from creosote oil, so assembled that it will saponify in water, making a creamy white emulsion. It is more powerful than carbolic acid, yet practically harmless to use. Its effect on the animal's skin is soothing and healing, but its effect on insects and parasites is deadly. An excellent preparation for sheep, cattle, hogs, chickens, horses, dogs, etc. Packed in barrels and all sized cans. Prices: 8-oz. bottles, 30c; pint cans, 45c; quarts, 70c;  $\frac{1}{2}$  gal., \$1.00; gal., \$1.60; 5 gal. cans, \$7.00.

## SPECIAL USES

Chloroleum has also been used very successfully in the garden and orchard for the following: Apple tree borer, army worm, cabbage maggots, chinch bugs, fruit tree bark beetle, onion maggots, peach borer, peach bark beetle, radish maggots, seed corn maggots, striped cucumber beetle and woolly aphids.

## ANCHOR BRAND BORDEAUX MIXTURE

A highly concentrated mixture to be diluted before using. Recommended for asparagus rust, beanlady bird, blister beetle, grapeberry moth, potato flea, strawberry flea, tomato flea. Prices: Quarts, 65c; gal. \$1.50; 5 gal. \$6.50.

## ANCHOR BRAND KEROSENE EMULSION

For plant lice, cabbage worms, scale insects on trees, also used in hand-dressing of cattle and sheep. Ready for use by simply adding 25 to 50 parts of water. Prices: Quarts, 60c;  $\frac{1}{2}$  gal. 85c; gal. \$1.25; 5 gal. cans \$4.50.

## ANCHOR BRAND LIME AND SULPHUR SOLUTION

The use of lime and sulphur in the garden and orchard has grown considerably in the past few years, and excellent results have been obtained. Care must be used in applying it. It is very inexpensive, easy to handle and ready to use. It is a deep cherry liquid, free from sediment. It is recommended for apple scab, aphid eggs, bitter root, clover mite, green fruit worm, leaf curl on peach, pear leaf blister mite, peach twig borer, San Jose scale, scurfy scale, Putnam scale. Write for spraying calendar, giving full instructions. Prices: Quarts, 60c; gal. \$1.00; 5 gals., \$4.00; barrels, 50-gal., \$17.00.

## SCALECIDE—Liquid

A concentrated soluble oil solution which mixes instantly with water and stays mixed. Can be diluted at the rate of 1 gal. to 15 or 20 gals. of water, and for many purposes, 1 gal. to 40 or 50 gals. of water. It needs nothing else with it. Is a perfect destroyer of all scale and insect pests, but will not injure the trees. Will not clog the finest sprayer. Can be applied any time in the year. 1 qt. can, 50c; 1 gal. can, \$1.00; 5 gal. can, \$4.00.

## TOBACCO STEMS

For fumigating. 10 lbs. for 60c; 25 lbs. for \$1.25; 100 lbs. for \$3.50

## TOBACCO PRODUCTS

Tobacco, when correctly applied, is a very effective insecticide. To-bak-ine, Fumigating Paper. A slow burning paper especially prepared and thoroughly saturated with pure nicotine, making its vapors sure death to aphids, red spider, thrip and all insects infecting greenhouses. It will not injure the most delicate flower. Per box of 24 rolls, \$1.15. Per case of 144 rolls, \$5.25.

To-bak-ine Liquid. A concentrated solution of nicotine, containing definite amount adjusted by chemical assay. Contains no ammonia. May be used as a spray or vaporized.  $\frac{1}{4}$  pint can, \$1.00;  $\frac{1}{2}$  pint can, \$1.65; 1 pint can, \$3.00.

To-bak-ine Fumigating Powder. This powder is superior to tobacco dust, having the ammonia extracted, and positively contains no adulterations. 50 lb. sack for \$2.50; 100 lb. sack for \$4.80.

For full information regarding these products ask for booklet, "Words of Wisdom."



## WHALE OIL SOAP—(Fish Oil)

Used in the greenhouse, nursery and anywhere that insect life exists. Per lb. 20c; 5 lb. box for 75c; 50 lb. box for \$6.00; 100 lb. box \$10.00.

Whale Oil Soap Solution. Dissolve 2 ounces of soap to 1 gallon of water for all small fruit. For large fruit, trees, shade trees, etc., use 3 ounces of soap per gallon.

## WHITE HELLEBORE—Powder

For currant worms, etc. A solution of one ounce of white hellebore to 3 gallons of water is very effective for slugs, and not dangerous to apply when fruits are soon ready for eating.  $\frac{1}{4}$  lb. 25c;  $\frac{1}{2}$  lb. 45c; lb. 80c.

## DUSTERS AND SPRAYERS

If wanted by mail, add postage



### BELLOWS

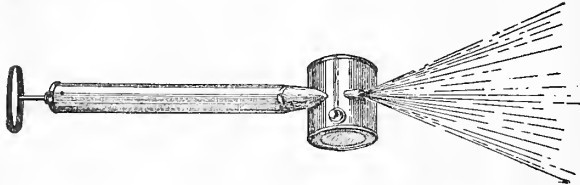
For powder. No. 14 holds 4 ozs. Each, \$1.80. No. 19 holds 8 ozs. Each, \$2.25.

### NOVELTY TIN SPRAY PUMP

Is used in a bucket. Has four nozzles. Is especially adapted for throwing insecticides on bushes, whitewashing chicken houses, etc., also washing windows, buggies, etc. Price, complete, 75c.



NOVELTY



BARTELDES' FAULTLESS SPRAYER

### BARTELDES' FAULTLESS SPRAYER

The best low priced tin sprayer on the market. It throws a spray as fine as steam, and is very useful for applying Liquid Lice Killer in cracks and crevices about the poultry house, roosts, nest boxes, etc.; also about the hog pens. It is more economical of the insecticide than a paint brush or other means of application. For applying insecticides onto rose bushes, shrubs, etc., it is unequaled, and should be in the hands of every gardener, fruit grower and poultry keeper. Price, 60c.

### LITTLE WONDER TIN SPRAYER

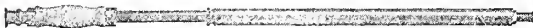
Similar to the Faultless but made smaller. A very convenient size for household use. Price, 40c.

### LITTLE MIDGET SPRAYER

Fifteen inches long, very convenient where a small amount of spraying is to be done. Each, 30c.

## SPRAY PUMPS

### THE STANDARD SPRAY PUMP



The Standard Spray Pump is in reality simply a very carefully designed and accurately made "squirt gun," provided with a proper outfit of nozzles.

Its plan of operation is slightly different from other types of spraying apparatus, since the hose is used on the suction end instead of the discharge end. This makes it possible to use the pump with a bucket, barrel, tank or knapsack, depending upon the number of trees or the kind of spraying to be done.

For bucket use a 3½ foot length of hose is supplied. To use it with a barrel or tank for a large orchard, a longer hose up to 25 or 30 feet is desirable.

For spraying young or scattered trees or truck crops, such as potatoes, tobacco, etc., the knapsack and short extension are used. With these attachments the Standard will spray potatoes one row at a time at the rate of an acre an hour or better.



POWDER DUSTER



POWDER GUN

### TIN POWDER DUSTER

Can be used for sifting on any powder insecticide. Perforated bottom. One gallon size, each 50c.

DICKEY POWDER DUSTER, each 25c.

### POWDER GUNS

Jumbo Gun is designed for use with our Persian Insect Powder; also the various powder insecticides. Holds four ounces. Will outlast several of the cheaper guns. Price, 35c, postpaid for 40c. Small size, "Star," holds two ounces, 15c, postpaid.



RUBBER PLANT SPRINKLERS

### SCOLLAY RUBBER PLANT SPRINKLERS

The very best. When once used you will wonder how you got along without it. For sprinkling plants, applying insecticides, etc., will last a lifetime.

No. 1, large, \$1.15. No. 2, large, with bent neck, \$1.15. No. 3, medium, \$1.00. No. 4 small, 75c.

The Standard is provided with a set of three nozzles, which will throw a coarse, medium, fine or extra fine spray.

### What the Standard Will Do

Spray orchards, large or small.  
 Spray vineyards and bushes.  
 Spray potatoes and all truck crops.  
 Spray whitewash.  
 Spray cattle dip and disinfectants.  
 Spray the tallest fruit trees FROM THE GROUND.

SAVES OVER HALF THE TIME and does its work thoroughly.

THE STANDARD IS MADE ENTIRELY OF BRASS—NO LEATHER PACKINGS—NO IRON CASTINGS TO RUST OR DECAY—NOTHING TO GET OUT OF ORDER.

Warranted for Five Years

### PRICE LIST

|  |         |
|--|---------|
| The Standard, with 3½ ft. of hose and full set of nozzles, each..... | \$ 5.00 |
| Knapsack attachments.....  | 2.50    |
| Potato Extensions.....   | 1.00    |
| Extra hose, per foot.....  | .10     |



## SPRAY PUMPS—Continued

### AUTO-SPRAY No. 1



AUTO SPRAY No. 1

It may be used where any bucket or Knapsack sprayer can be used, and with much more satisfaction.

Eight or ten strokes of plunger in air chamber will compress enough air to discharge the entire contents and make a continuous spray for nine minutes. The "Auto-Spray" is light and a boy can carry it with ease and cover ten times more area in a day than can be covered with the old style sprayers, which require the operator to be constantly pumping in order to do the spraying. The "Auto-Spray" does the work as fast as a man can walk. It will spray every solution that any other pump will handle, including whitewash and cold water paint.

Illustration shows "Auto-Spray" combined with Auto-Pop nozzle. This nozzle is not furnished regularly with the pump but is extra. See below.

Descriptive circular sent on application. Price: "Auto-Spray" with galvanized iron tank holding 5 gallons, and stop-cock, \$5.50; with brass tank, \$8.25.



2 FT. BRASS EXTENSION PIPE

Auto-Pop, which is a patented device for controlling the spray and cleaning the nozzle aperture, each, \$1.30.

Underspray Attachment, made of brass, each, 30c.

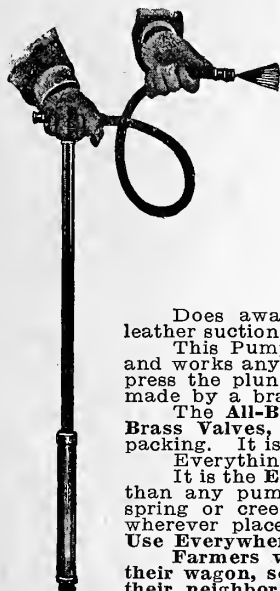
Extension Brass Pipe, 2 feet long, each, 50c.



Underspray Attachment

### "KANT-KLOG" SPRAYER

The "Kant-Klog" Sprayer is a compressed air sprayer fitted with a nozzle for making 2 round and 1 flat spray and two solid streams; has thumb pressure Spring Hose-Cock, carrier strap and safety valve. The sprayer body is made of heavy polished brass or galvanized steel, as desired. Both top and bottom are dome-shaped; joined to body under heavy pressure, making a complete double seam. The air pump is made of heavy brass tubing, two inches in diameter.



JR. No. 5 as much.

A few seconds working of the air pump charges the sprayer with compressed air, a powerful and elastic force, which discharges the liquid in the form of either fine sprays or solid streams, as desired.

Each sprayer is fitted without extra charge with "KANT-KLOG" nozzle for making two round and one flat spray, two solid streams, thumb pressure Spring Hose-Cock, carrier strap and safety valve. Lever is not necessary—if wanted add 15c.

Price with galvanized steel body, \$5.00; with polished brass, \$7.55.



KANT-KLOG

### JUNIOR No. 5 SPRAY PUMP

Does away entirely with the objectionable foot-rest, clamps, leather suction, packing, etc., etc.

This Pump requires no fastening of any kind, holds itself down and works anywhere and everywhere. All the operator need do is to press the plunger down. It rises of itself, the upward stroke being made by a brass spring forcing the cylinders apart.

The All-Brass suction working within a brass cylinder with all Brass Valves, does away entirely with all leather, rubber or other packing. It is practically impossible for any part to get out of order.

Everything except handle and hose is Solid Brass.

It is the Easiest Working and will do more different kinds of work than any pump ever made. Will pump from a pail, barrel, tank, spring or creek. Without fastenings of any kind it stands firmly wherever placed. Weighs only 4 pounds and is Ready for Instant Use Everywhere.

Farmers with an ordinary amount of Spraying put a barrel on their wagon, set this Pump in and spray their trees as effectively as their neighbor who uses an outfit weighing and costing five times

Will throw two solid, continuous streams, one flat spray and one fine round spray. Has automatic mixer to keep solution stirred, pleases everybody and will last a lifetime.

Price of Pump complete, as shown in cut, \$4.25.

Brass Elbow for spraying underside of low growing plants, each, 50c.

Brass Extension Pipe, 3 feet long, each, 50c. Several can be screwed together when desired. Used for spraying high trees.

### FUMIGATORS

Galvanized Iron. Used for fumigating greenhouses, etc. Small size, No. 2, \$2.00. Large size, No. 3, \$2.50.

## DEMING'S SPRAY PUMPS

WE CARRY A FULL LINE OF REPAIRS AND PARTS FOR DEMING SPRAY PUMPS



No. 662



No. 669

**No. 662. Universal Success Pump.** With various attachments to make it either a Spray Pump, Plumber's Force Pump, whitewasher or a Fire Extinguisher. No. 662 is fitted regularly with a galvanized tank holding five gallons. The galvanized iron will not withstand the action of the Bordeaux Mixture, Lime, Sulphur and Salt Solutions or Ammoniacal Solution of Copper Carbonate. In case these preparations are used a brass tank will be furnished.

All working parts of pump are brass, including brass ball valves. A sliding cover is prepared to prevent the liquid from splashing out. The air chamber, which is also brass, allows a good pressure to be maintained for each of the various purposes.

Price, complete with galvanized iron tank, \$13.50. Price complete with brass tank, \$16.50.

**No. 669. "The Prize."** Has brass working parts with bronze ball valve and malleable foot rest. Is the best pump for the price that has ever been offered. Is furnished with Acme Nozzle. Price, without bucket, \$4.90.

**No. 675. The "Success" Knapsack Sprayer.** Has a 5-gallon tank, a brass pump with bronze ball valves and extra wide straps. Price \$23.50.

**No. 550. The "Simplex" Barrel Spray Pump.** The popular orchard sprayer with mechanical agitator and brass working parts. Cylinder 2½ inches.

The air chamber is large and insures a constant stream. The agitator agitates. The discharge has a "Y" connection. Weight about 60 lbs.

Pump with outfit "A." Consisting of 12½ feet ½-inch hose, a Bordeaux Nozzle and pole connection, all complete ready for use. Price, \$15.50.

Barrel not furnished with pump.



No. 550

### ATTACHMENTS FOR SPRAYERS

#### Nozzles

Deming Vermorel with degorger affords a conical discharge. A very popular nozzle. For ¼-inch pipe. Price, \$1.00, postpaid.

Bordeaux for a fan-shaped spray. Will also throw a solid stream. Price, \$1.00, postpaid.

### RUBBER TUBING

For use with Spray Pumps, ¾ and ½ inch. 3-ply, 14c per ft.

**No. 689. "Perfect Success."** All parts coming in contact with the liquid are brass with indestructible bronze valves. Malleable iron combination foot rest. Has large air chamber and is double acting, throwing a continuous stream. Is provided with Bordeaux Nozzle and four feet of discharge hose. Price, complete, as shown in cut, except bucket, \$6.25.



No. 689

**No. 654. The "Prize" Knapsack Greenhouse Sprayer.** Is provided with a special attachment for clamping the pump to galvanized iron tank and has a handle by which tank may be carried about after removing the lever and its handle; in this way it can be used similar to a bucket pump. Price, \$13.50.

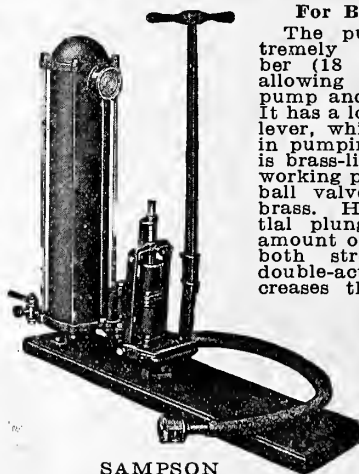


No. 654

## THE SAMPSON DOUBLE ACTING SPRAYER

### For Barrel or Tank

The pump has an extremely large air chamber (18 gallons capacity) allowing the operator to pump and rest alternately. It has a long, well-balanced lever, which is a great aid in pumping. The cylinder is brass-lined and all other working parts including the ball valves and seats are brass. Having a differential plunger, an equal amount of work is done on both strokes making it double-acting, which decreases the labor and increases the work done. The pump is furnished with one discharge Y, 8 feet of 1¼-inch wire-lined suction hose and strainer. Price, \$52.50.



SAMPSON

### EXTENSION RODS

Bamboo. 8 ft. Fitted with brass stop cock and ready for nozzle. Complete for \$4.00.



## SPRAY PUMPS—Continued

### No. 645. THE CENTURY BARREL PUMP



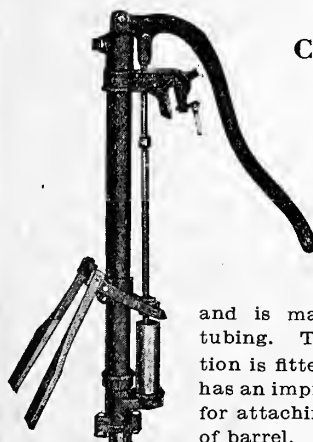
No. 645

This pump sets low in barrel; the cylinder is submerged and is 2¼ inches in diameter. Base fits 10 x 10-inch hole. The agitator is twin

paddle type. Cylinder, brass ball valves, cages and seat are easily removed.

Weight about 75 lbs. Price, with outfit A, \$19.50.

### No. 632 THE CAPTAIN BARREL SPRAYER



No. 632

The pump is made with 1¼-inch Brass Tube Cylinder; has Brass Ball Valves and Valve Seats, and Brass Plunger with improved packing. The Air Chamber is ample in capacity,

and is made of 2¼-inch boiler tubing. The Discharge Connection is fitted for ½-inch hose. It has an improved adjustable clamp for attaching rigidly to the inside of barrel. The Agitator is simple in construction and very efficient.

Weight about 40 lbs.

Pump with outfit A, price, \$14.00.

### TROWBRIDGE GRAFTING WAX



This is made of standard formula and is furnished in cakes ready for use. ¼ lb. cake, 15c; ½ lb. cake, 20c; 1 lb. cake, 35c; 5 lbs. at 25c per lb.

### TREE PROTECTORS

Made of veneer wood. When dampened will bend to fit around the tree. Size 10x18, price, \$1.00 per 100; \$8.00 per 1,000; size 10x22, price, \$1.15 per 100; \$9.00 per 1,000; size 10x24, \$1.25 per 100; \$10.00 per 1,000.

### HOT-BED PROTECTING CLOTH

A waterproof cloth making a grand substitute for glass on hot beds and cold frames. Protects growing plants in spring and fall from frosts, insects, etc. Promotes hardy and vigorous growth without burning or drawing the plants. No. OO Medium Heavy Grade, 36 in. wide, is best for use in Colorado. Price per yard, 20c; 20 yards at 17c per yard; 50 to 60 yard roll at 16c per yard. Order early and be ready when wanted.

### THE BALL LIGHTNING CELERY BLEACHER



Will bleach celery in 10 to 15 days. No banking with soil. Easy to put on and with care will last many seasons. When used in connection with the Ball Lightning Celery Handler, 3,000 to 4,000 Bleachers can be put on in a day.

Just the thing for the home garden, to bleach a few bunches at a time.

Made in three sizes:

Bleachers:

6 x12-inch, 30c dozen; \$1.75 per C; \$16.00 per M.  
6½x13-inch, 35c dozen; 2.00 per C; 18.00 per M.  
7 x14-inch, 40c dozen; 2.15 per C; 20.00 per M.

Handlers: \$3.50 each.



### No. 650. BARREL CART

This cart is very handy, as it dispenses with horse and wagon for spraying orchard or large fields. It carries nicely a 50-gallon barrel, which can be readily disconnected or attached to it. Ask for price.

With each of these Deming Sprayers we give a valuable book free, "Spraying for Profit." Publishers' price, 20c each. We have many other styles of the Deming Pumps. Ask for special catalogue.

### SEED TRYERS

Made expressly to use in taking samples of seed and grain from sacks. Made of nickel. Small pocket size, \$1.25; large, 9-inch, for coffee, beans, etc., \$2.00.

**HOT-BED SASH.** Size, 3 feet, 3 in. by 6 feet for 8 by 10 glass. Unglazed, each, \$2.00. Ask for prices glazed.

They will carry better if unglazed, and advise customers to get glass shipped boxed up; adding price of glass to unglazed sash.

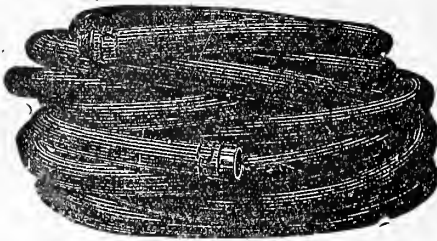
### GREENHOUSE AND HOT-BED GLASS

8x10, 90 in a case; 10x12, 60 in a case. Prices on application.

Prices subject to change without notice.

## LAWN REQUISITES

### RUBBER HOSE



### RUBBER HOSE

**Barteldes' Columbine Grade.** 5-ply Sun-resisting—fully guaranteed—fitted with couplings:

|                    |              |
|--------------------|--------------|
| 50 ft., ½-in. .... | Price \$5.50 |
| 50 ft., ¾-in. .... | 6.00         |

### Corrugated Non-Kinkable Hose

The strongest hose made, fitted with couplings, ¾-inch size. Price, 25 ft. \$5.00; 50 ft. \$9.25. ½-inch size, 25 feet \$4.25; 50 feet \$8.00.

### DUNHAM WATER BALLAST LAWN ROLLERS

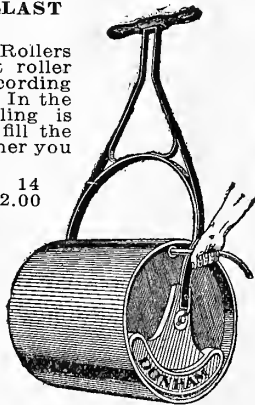
With this new style of Rollers you can have any weight roller the lawn or land needs, according to season and conditions. In the spring, when a light rolling is wanted, you only need to fill the drum partly, while in summer you may fill it full.

Small size, diameter 14 inches, length 20 inches, \$12.00

Middle size, diameter 18 inches, length 24 inches, \$14.00.

Large size, diameter 18 inches, length 32 inches, \$20.00.

Price subject to change.



### GRASS TRIMMING SHEARS



For trimming around flower beds, walks, etc. Extra grade, 90c each.

### GOOSE NECK CONNECTION

Prevents kink and break of hose near ground connection. Made in ¾-inch size only. Each, 60c.



### THE LAWN TWIN SPRINKLER

Is a combination of simplicity, neatness and effectiveness. The two orifices distribute the water with the utmost freedom and completeness. Its location can be changed with ease, while working, with the aid of wire or

cord attached to the eye between the bulbs. Price, each, 50c.

### SINGLE HOLE SPRINKLER

Similar to Lawn Twin but has only one orifice. Price, each, 50c.

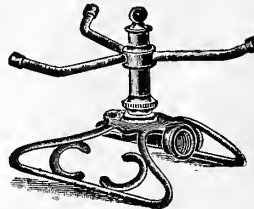
### COMBINATION SPRINKLER



This sprinkler will not only sprinkle a full circle, but by means of a cut-off, the spray can be regulated so as to cover a fraction of a circle only. This is particularly desirable in sprinkling near the sidewalk. Price, each, 90c.

### BOSTON ROSE SPRAY

**BOSTON ROSE SPRAY**  
Brass, 3-inch flat face. For ¾-inch connection, 65c.



### PRESTON SPRINKLER

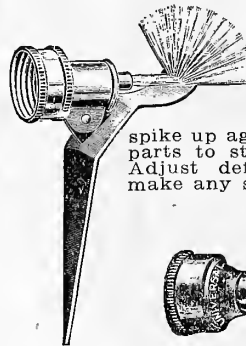
### PRESTON SPRINKLER

This is one of the most effective sprinklers in the market. It gives a fine spray, covers a large circle, distributes the water evenly and presents a very attractive appearance. Each, \$1.50.

### PLUVIUS SPRINKLER

Resembles the Preston, but stands higher, the head and arms being ball bearing, spin with little friction and distribute the water over a large area. Each, \$1.60.

### "CENTRAL"



Throws a fan-shaped spray away from the operator and, by means of the spike, will stay where placed without the aid of bricks or blocks. If you want a powerful straight stream, simply fold the spike up against the hose. No interior parts to stop the force of the water. Adjust deflector with the finger to make any spray.....Each, 35c



### UNIVERSAL

A quarter turn of the tube gives every variety of spray, from a near shut-off to a straight stream. No packing—the hose washer holds it tight. Each, 50c

### BLAKE SPRINKLER

The spoon revolves and spray covers a large area. Each, 25c.



### Blake Sprinkler

### BUSY SPRINKLER

This is same as Blake but is mounted on a low base. Each, 75c.

### RING SPRINKLER

The perforations are so arranged as to give a finely divided, well distributed spray. Each, \$1.00.

### COOPER HOSE MENDER

The best "mender" on the market, made of brass, with barbs on each end, which prevents hose from slipping out. Will not rust or wear out. Millions in use.



¾ or ½-inch, each, 15c.



## LAWN REQUISITES—Continued



### BRASS HOSE COUPLINGS

For  $\frac{1}{2}$ -inch and  $\frac{3}{4}$ -inch hose. Per set, 25c.

### IRON HOSE MENDERS

$\frac{1}{2}$  and  $\frac{3}{4}$ -inch. 6 for 25c.

### WOODEN HOSE MENDERS

(Look like Cooper's.)  $\frac{1}{2}$ -inch and  $\frac{3}{4}$ -inch. Per dozen, 15c.

### PATENT HOSE CLAMP

One-half-inch, 3 for 10c; doz. 35c;  $\frac{3}{4}$ -inch, 3 for 10c; doz. 35c.

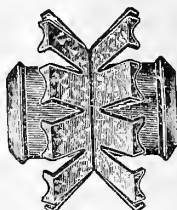
### CALDWELL BRASS WIRE STRAPS

For  $\frac{1}{2}$ -inch hose, per doz. 15c;  $\frac{3}{4}$ -inch hose, per doz. 15c. Pliers for same, 25c each.

### PERFECT CLINCHING HOSE MENDERS

Easiest mender on the market. Simply slip in the hose and hammer down. Won't pull apart—leaves hose smooth—no extra bands, bolts or wires needed.

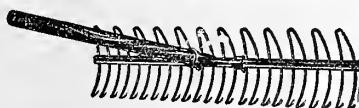
Each 15c; 2 for 25c.



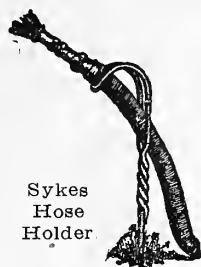
### PERFECT CLINCHING HOSE COUPLING

Same principle as the hose mender—slip into hose and hammer down. As smooth and more durable than a factory coupling. Made entirely of brass.  $\frac{1}{2}$  or  $\frac{3}{4}$ -inch, 30c set.

### QUEEN CITY LAWN RAKE



Is reversible and can be used for grass or leaves, 24 teeth, 20 $\frac{1}{2}$  inches long. Each, 60c.



Sykes  
Hose  
Holder

### SYKES HOSE HOLDER

Each, 25c.

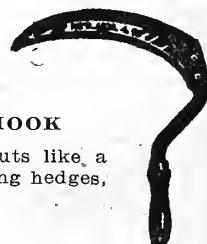
### GRASS AND TURF EDGER

Very useful when working on lawn walks. Price, 75c.



### HOSE WASHERS

To fit  $\frac{1}{2}$  and  $\frac{3}{4}$ -inch. Doz. 5c



### LITTLE GIANT GRASS HOOK

Is a miniature scythe and cuts like a scythe. Handy for lawn, clipping hedges, etc. Price, 75c.

### PERFECTION DANDELION PULLER

Made of best malleable iron. Very light. A sure puller. Price, 50c.



### GARDEN RAKES

"Champion," 14 tooth, each, 75c.  
"Champion," 16 tooth, each, 80c.  
"Bow Ideal," 14 tooth, each, 70c.  
"Bow Ideal," 16 tooth, each, 75c.



CHAMPION  
RAKE

### DANDELION RAKE

Made with a saw-tooth edge, which catches and cuts off the heads of the dandelions, thus preventing their going to seed. \$1.25 each.

## IMPLEMENT DEPARTMENT

WHEN GARDEN TOOLS ARE WANTED BY MAIL, ADD POSTAGE

### GARDEN AND FIELD HOES



### HEART-SHAPED WARREN HOE

Used for weeding, cultivating, drilling and hilling. Riveted shank, each, 65c.

### Double Bit Garden Hoe

Blade 6 $\frac{1}{4}$ x2 $\frac{1}{2}$  inches. Each, 50c.



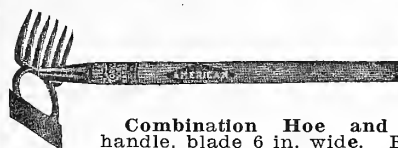
### MATTOCK HOE No. 24

Blade 4 $\frac{1}{2}$  in. wide. Each, 70c.



### PLANT DIBBER

Has wooden handle with solid steel point. Used in making holes for setting out plants, 50c. Plant Dibber, all iron, price, 45c.



Combination Hoe and Rake. Long handle, blade 6 in. wide. Each, 60c.

### Garden Mattock No. 13

Blade 1 $\frac{1}{4}$  and 3 inches wide. Each, 65c.



### Garden Hoes

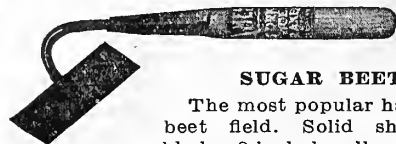
Good grade steel, riveted socket, each, 45c.

Garden Hoes. High grade steel, solid socket, each, 85c.

Weeding Hoes. One prong, 50c.  
Weeding Hoes. Two prong, 65c.



## IMPLEMENT DEPARTMENT—Continued



### SUGAR BEET HOE

The most popular hand tool in the beet field. Solid shank,  $4\frac{1}{4}$ -inch blade, 8-inch handle. Each, 85c.

### SUGAR BEET HOE

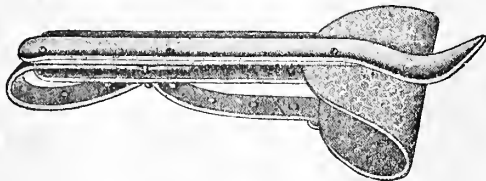
### GARDEN LINES

These are made expressly for this purpose; best braided. 100 feet, 85c.



### GARDEN SPADE

M. C. Pattern, very strong. Each, \$1.75.

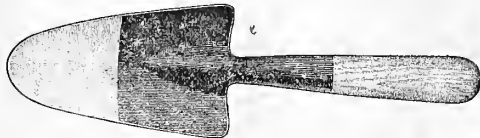


### HUSKING PIN No. 200

A perfectly satisfactory husking pin and well worth the money. 50c each.



Cleves' Angular Transplanting Trowels. Small, 5-in., 25c; large, 8-in., 30c each.



### "TIP-TOP"

This new trowel is made from strong shovel steel and is the strongest trowel we list. It will last a lifetime. Price, 25c each.

### FIVE-IN-ONE GARDEN TOOL



Dibber, fork, hoe, trowel and weeder combined. While weeding, digging, planting and transplanting flowers and plants you are saved the annoyance of missing tools. A spring releases the particular tool you desire and the fret and worry of handling five separate tools is avoided. Price, 50c.

### TROWELS

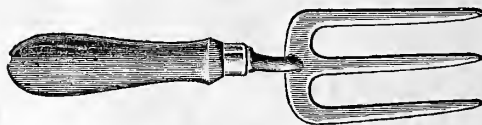
A good trowel is indispensable. Our No. 3090 is 6 inches long, high-grade steel. Price, 30c.

**Barteldes' Florist Trowel.** Made of best steel especially for our trade and bears our name. Shanks extra strong; blade 6 inches long. Price, 75c.

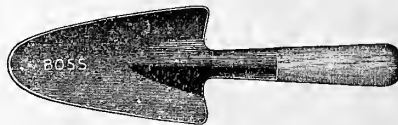
**Common Riveted Trowels.** 6-inch, 15c; 7-inch, 20c; 8-inch, 25c.

**"The Denver."** The strongest trowel on the market for the money. 6-in., price, 20c.

**Bulb Trowels.** Oval-shaped, 6 inches long by  $4\frac{1}{4}$  inches wide, very good and strong. Price, 60c.



Strawberry Transplanting Fork. Price, 25c.



### THE "BOSS"

This trowel is made the same as the "Tip-Top"—out of shovel steel, but it a little smaller. Price, 20c. each.

## KNIVES



### GRAFTING KNIFE

Wooden handle. Each, 30c.



### STATIONARY HANDLE BUDDING KNIFE

Plain, 6 inches long. 25c each.



### ASPARAGUS KNIFE

Made of best steel. Used also to cut Dandelions from lawns. 45c each.



### STATIONARY HANDLE PRUNING KNIFE

High grade steel,  $7\frac{1}{2}$  inches long. 50c each.



### BEET TOPPING KNIFE

Made of very best steel. Each 50c.



## IMPLEMENT DEPARTMENT—Continued

### MPHREY'S CONCAVE POTATO KNIFE



With the Concave Potato Knife, seed potatoes can be cut better, and \$2 to \$3 an acre saved in seed and time by its use. Our illustration shows how the eyes are cut with the knife, making a compact piece with the center surrounded by the greatest amount of tuber. If the same eye has been cut by a straight knife, the piece would be thin, flat and broad and liable to dry up and decay before germination..... Price, postpaid 30c



### SAN JOSE TREE PRUNER

Has long handles, seamless steel ferrules and notched hooks. Length, 26 in. Each, \$1.50.



### FRESNO PATTERN

### FRESNO PATTERN TREE PRUNER

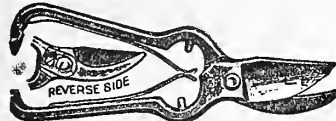
Forged from high-grade tool steel. Finely tempered, has solid wrought steel ferrules and a lock nut. It is 26 inches long. Each, \$2.00.



### HEDGE SHEARS

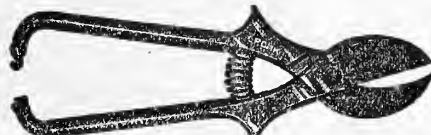
Heavy steel, notched blades, 9 in. long. Each, \$1.65.

### PRUNING SHEARS



No. 5

No. 5 has a flat spring, blade with hooks, forged from tool steel, oil tempered and warranted. Length, 9 inches. Each, \$1.50.



No. 9

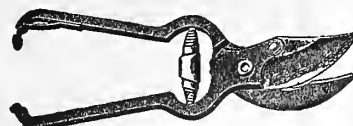
Cronk's No. 9 has solid blades and handles with heavy coil spring; very strong. Length, 9 inches. Each, \$1.10.

No. 203 Grape Shears. Used for thinning out growing fruits such as grapes, pears, apples, etc. Length, 6 1/4 inches; made from high grade steel, with volute spring. Price, 50c.



No. 17

No. 17 has detachable polished tempered steel blade and is 9 inches in length. Each, 50c.



No. 27

No. 27 has detachable blade of cutlery steel. Notched hook, forged from tool steel and tempered. Length, 9 inches. Each, \$1.10.

## HAND WEEDERS

### HAZELTINE WEEDER

One of the best, solid steel, good size and durable; in general use over the country. Also used for scraping off old bark on fruit trees. Each, 30c, postpaid.

### COMBINATION WEEDER

Combining as it does both the rake and hoe, it is the most serviceable, desirable and perfect weeder on the market. Allows weeding close to the plants, and is offered at about the same price as the other weeders.

Each 35c; postpaid.



### EXCELSIOR WEEDER



A very useful tool for weeding seed beds, stirring the ground, etc. This is one of the most useful tools in working the garden. No one should be without it. Each 20c.

## IMPLEMENT DEPARTMENT—Continued

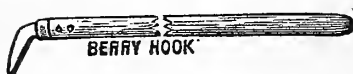


### LONG HANDLE TREE PRUNERS

#### Waters Improved Tree Pruner

A very popular tool for trimming. 8-foot pole, complete, each, \$1.00; 10-foot pole, complete, each, \$1.15; 12-foot pole, complete, \$1.25. Extra blades, 25c.

### BERRY HOOKS



Just what is wanted by berry growers to use when cleaning out old growth. Price, 75c.



### CLIMAX FRUIT PICKER

The best arrangement we have ever seen for picking apples and pears. It fastens to a pole and has a long bag. Veteran apple men tell us that it is the best contrivance for careful apple picking ever introduced.

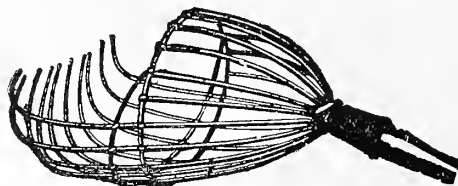
Price, complete with either 8 or 10-ft. pole, \$1.25; without pole, \$1.00.



CLIMAX FRUIT PICKER

### THE PENNSYLVANIA FRUIT PICKER

This illustration speaks for itself. Every apple grower should use them. Furnished with or without a pole. Price, with pole, 75c; without pole, 50c.



PENNSYLVANIA FRUIT PICKER

#### PICKING BAG

This bag is adjustable as to size of opening and depth, so the pickers avoid dropping the fruit into a long deep bag and bruising a considerable percentage of it. The bottom opens up to let fruit escape from bag into box or barrel without being bruised. Price, \$1.50.

### WIRE HANGING BASKETS

Ten inches, fancy top, each, 25c; 12 inches, fancy top, each, 30c; 14 inches, fancy top, each, 35c; 16 inches, fancy top, each, 40c.

**SHEET MOSS.** For hanging baskets.  $\frac{1}{4}$  lb. 15c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c.

### DOUBLE EDGE PRUNING SAW



No. 2 Duplex. 16 inches long. Each, 75c.

### "PERFECTION" PRUNING SAW

Made of best steel with adjustable blade, so any branch can be easily removed close to trunk of tree. Can be used as a hand saw or fastened to any size pole. The best saw on the market. Each, \$1.75; extra blade, 25c.



Perfection Pruning Saw with a Short Wooden Handle. Each, \$1.75.

### ELMIRA PRUNING HOOK AND SAW

Has a detachable saw in addition to the pruning hook. 10-foot pole, \$1.50; 12-foot pole, \$1.75.

**PUTTY KNIFE.** A very handy tool, 25c each.

**GLAZING PUTTY.** In ten to twenty-five pound bladders at 6c per pound.

**MASTICA.** For glazing greenhouses. Saves much time and expense. Nothing equals it.  $\frac{1}{2}$  gal. \$1.05; gal. \$1.90.

**MASTICA MACHINE.** For applying Mastica, \$1.75 each.

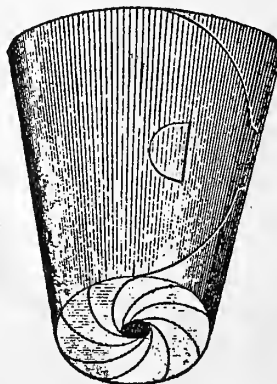
**SCOLLAY'S PUTTY BULBS** (see cut). For applying liquid putty. \$1.00 each.

**BLACK DIAMOND GLASS CUTTER.** Each, 25c.

**VAN REYPER OR PEERLESS GLAZING POINTS.** No rights or lefts. Holds glass firmly. No. 1 for small, single thick glass. No. 2 for medium double thick glass. No. 2 $\frac{1}{2}$  for large, double thick glass and skylight. 1,000 in a box for 70c.



### NEPONSET PAPER FLOWER POTS



NEPONSET PAPER FLOWER POT

Made of waterproof fabric. Are absolutely unbreakable. The cheapest pot on the market. 2 $\frac{1}{4}$ -in. size, 1,000 in crate, weight 15 lbs., per 100, 40c; per 1,000, \$3.15; 3-in. size, 1,000 in crate, weight 30 lbs., per 100, 55c; per 1,000, \$5.00; 4-in. size, 500 in crate, weight 26 lbs.; per 100, \$1.25; per 1,000, \$10.00; 5-in. size, 500 in crate, weight 45 lbs.; per 100, \$1.65; per 1,000, \$14.75.



## THERMOMETERS

These prices do not include postage except where noted. Ordinarily they carry safely by mail; however, we cannot guarantee safe arrival. **Large Thermometers should be sent by express only.** When wanted by mail, ADD TEN CENTS EACH, 2 for 15c; to cover cost of box, packing and postage.

If interested, ask for our pamphlet on Orchard and other high-grade Thermometers.

**No. 5440. 8-inch, Japanned Tin Case.** Black figures and graduations, magnifying mercury tubes. 25c each

**No. 5430. 10-inch, Japanned Tin Case.** With black oxidized brass scale, white filled figures. Very reliable for greenhouse and outdoor use. 65c each

**No. 5400. 10-inch, "Tycos" Enameled Tin Case.** Magnifying mercury tubes, black oxidized brass scales, white filled figures and brass screw clasps. Very dependable for greenhouse and orchard. Tested. \$1.25 each

**No. 5140. 10-inch Household.** Black oxidized brass scales on wood back, white filled figures, with nickel-plated mountings. Magnifying mercury tubes. 60c each

**No. 5374. Storm Glass and Thermometer.** Lithographed tin scales, varnished, white wood back, size 9 inches by 3 inches. 25c each

**No. 5480. 10-inch Self-Registering.** Indicates each day the extremes of temperature. Mounted on imitation boxwood, complete with magnet. \$2.00 each

**No. 5472. 10-inch Self-Registering.** Similar to No. 5480 with boxwood scales, fitted with a protecting hood. \$3.00 each

**No. 5982. Hot Bed.** A glass tube mounted in a wooden tube with brass pointed bottom. Fair grade. Recommended for use where growing mushrooms. \$1.25 each

**No. 5981. "Tycos" Hot Bed.** A carefully tested magnifying mercury thermometer, well made and very accurate. Black oxidized brass scale mounted with screw clasps, on strong hardwood frame. \$2.00 each

## FLOWER POTS AND SAUCERS



**EARTHEN HANGING BASKETS.** 9 inches wide, 25c each.

If you want flower pots per 1,000 ask for latest prices.

### \* KRAMER'S POT HANGERS

The neatest, simplest, most convenient and practical device for converting ordinary flower pots into hanging baskets. They fit all standard made pots from 2 to 10 inches across. Single set, 15c; four sets for 50c, postpaid.

**BARTEDES' POT HANGERS.** Two links, 3 strands, each, postpaid, 10c.

### PRICE LIST—STANDARD POTS

These prices include packing and delivering to railroad in this city.

| Pots   |          |         |         |          |         |
|--------|----------|---------|---------|----------|---------|
| Inch   | Per doz. | Per 100 | Inch    | Per doz. | Per 100 |
| 2..... | \$0.15   | \$ 0.90 | 6.....  | \$0.75   | \$ 5.00 |
| 2½.... | .20      | 1.10    | 7.....  | 1.00     | 6.00    |
| 3..... | .30      | 1.50    | 8.....  | 1.25     | 9.00    |
| 4..... | .45      | 2.15    | 9.....  | 1.50     | 12.00   |
| 5..... | .60      | 3.60    | 10..... | 2.00     | 15.00   |

| Saucers |          |         |         |          |         |
|---------|----------|---------|---------|----------|---------|
| Inch    | Per doz. | Per 100 | Inch    | Per doz. | Per 100 |
| 4.....  | \$0.25   | \$ 1.40 | 8.....  | \$0.80   | \$ 5.00 |
| 5.....  | .35      | 2.00    | 9.....  | 1.00     | 6.00    |
| 6.....  | .40      | 2.75    | 10..... | 1.25     | 8.25    |
| 7.....  | .50      | 3.60    |         |          |         |

### AZALEA POTS Same Prices as Standard

| BULB OR FERN PANS |        |         |         |        |         |
|-------------------|--------|---------|---------|--------|---------|
| Inch              | Each   | Doz.    | Inch    | Each   | Doz.    |
| 6.....            | \$0.10 | \$ 0.80 | 8.....  | \$0.15 | \$ 1.25 |
| 7.....            | .15    | 1.00    | 10..... | .20    | 1.75    |

## IMPLEMENT DEPARTMENT—Continued

### SELF-WATERING WINDOW AND PORCH FLOWER BOXES AND HANGING BASKETS



As the name implies, these metal boxes and baskets are provided with a self-watering device which renders attention unnecessary except at intervals of from four to five days. A metal tube in the corner of each box extends from the water reservoir underneath the false bottom upward through the soil to top of box. Inserted in holes in the false bottom are sponges which touch the extreme bottom of reservoir and extend upward through the soil in which the flowers are planted. The water is drawn upward through these sponges in sufficient quantities to maintain a uniform moisture in the soil. These boxes and baskets are made of heavy galvanized iron, neatly painted green, guaranteed not to leak, and provided with eyelets to fasten securely or to hang. On account of our high altitude and dry atmosphere they are provided, especially for our trade, with larger sponges and reservoir than usually furnished.

#### Price List of Window Boxes

|        |   |        |
|--------|---|--------|
| No. 1. | 8 in. high, 9½ in. wide, 23 in. long, each..... | \$2.75 |
| No. 4. | 8 in. high, 9½ in. wide, 29 in. long, each..... | 3.25   |

#### Price List of Porch Boxes

|         |   |        |
|---------|---|--------|
| No. 21. | 9 in. high, 12 in. wide, 37 in. long, each..... | \$4.75 |
| No. 22. | 9 in. high, 12 in. wide, 41 in. long, each..... | 5.50   |

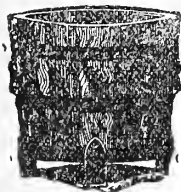
#### Price List Hanging Baskets, including Hooks but no Chain

|         |                                      |        |
|---------|--------------------------------------|--------|
| No. 12. | 8 in. high, 12 in. square, each..... | \$2.50 |
| No. 14. | 9 in. high, 14 in. square, each..... | 3.00   |

**COPPER PLATED STEEL CHAIN**, for hanging basket, per foot, cents.

### PLANT AND TREE TUBS

No. C Tubs have no handles.



These tubs are made from what is known as Everlasting Cypress. A wood that is durable in resisting decay, yet not exceedingly heavy weight. The manufacturer is proud of the workmanship in finishing them neatly. Are painted green, the castings japanned.

When shipping two or more of a size the feet and bolts are packed inside to facilitate nesting.



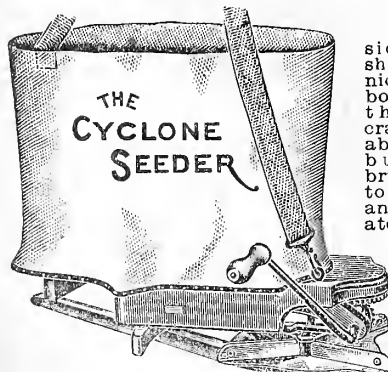
**BARKER  
GARDEN  
WEEDER AND  
MULCHER**

### BARKER'S GARDEN WEEDER

The Barker Garden Weeder and Mulcher operates on the plan of a lawn mower. The rear blade or knife passes beneath the surface of the soil and the revolving blades pass over it, cutting the weeds off, and chopping them up so that they soon dry up and die. It will not work when the weeds are a foot or two high, but it will work successfully in any garden kept the way a garden should be kept. The tool is 8 inches in width and weighs about 15 pounds. Price, \$3.75.

| No. | Outside Top Diam. | Bottom | Depth | No. of Hoops | Weight | Price  |
|-----|-------------------|--------|-------|--------------|--------|--------|
| C   | 10                | 9½     | 9     | 3            | 3      | \$0.80 |
| 1   | 12                | 10     | 11    | 3            | 4½     | 1.10   |
| 2   | 13                | 10     | 12    | 3            | 7      | 1.35   |
| 4   | 16                | 13     | 15    | 3            | 9      | 2.10   |
| 5   | 19                | 16     | 18    | 4            | 14     | 3.00   |
| 6   | 22                | 20     | 19    | 4            | 17½    | 4.35   |
| 8   | 26                | 24     | 23    | 5            | 25     | 5.60   |

### CYCLONE SEEDER



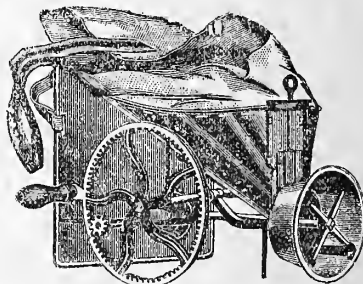
It has its right side concave in shape and rests nicely against the body just above the hip. The crank shaft being above the distributing wheel brings both hands to nearly a level and gives the operator the easiest position possible.

It sows evenly all kinds of grass seed, grains and fertilizers. Clover is thrown a width of 18 ft.; timothy, 15 ft.;

alfalfa, 20 ft.; wheat, 25 ft.; oats, 18 ft.; millet, 18 ft. An operator can sow from 40 to 50 acres per day. Price, \$2.00.

### CAHOON'S PATENT HAND SEED SOWER

For sowing alfalfa, wheat, oats, barley, rye, buckwheat, grass seeds, etc. The best machine of the kind in the market. The grain is held in a tight sheet-iron hoppersurrounded by a bag which will hold a bushel of seed. This is suspended by a strap from the operator's neck, and held in position by a strap around the waist. The seed is thrown from 8 to 20 feet on each side of the operator the heaviest seed being, of course, thrown the greatest distance. Price, \$3.50.





## IMPLEMENT DEPARTMENT—Continued

### ROYAL WHEELBARROW CHAIN FEED SEEDERS



They run easily and sow evenly in windy weather. The quantity of seed sown is accurately governed by the wheel,

which is made of steel, 32 inches high with a tire 1 1/4 inches wide by 1/4 inch thick. The seeder is instantly

thrown out of gear by a lever and the quantity of seed sown is quickly governed by changing the pin in the index plate.

**No. 11.** Single Hopper Seeder, sows all small seeds, like clover, timothy and alfalfa. With hopper, 14 ft. long. Price, \$9.00.

**No. 12.** Double Hopper Seeder, 14 ft. long, sows all small seeds, and also chaffy seeds, like orchard grass, fescue, etc. Price, \$10.00.

### THOMPSON'S WHEELBARROW GRASS SEEDER

**For All Kinds of Grass Seeds**

**No. 8.** For sowing Brome grass, clover, timothy, millet, alfalfa, etc. Price, complete, \$10.50.



IMPROVED  
ROTARY

### HAND PLANTERS

**For Planting Corn, Beans and  
Kaffir Corn**

**"Diamond" Improved Rotary.** Has rotary drop. Three seed plates with seven chambers each. Works perfectly. When wanted for planting Kaffir corn please mention in order. A disk with special size holes is required. Price, \$2.10.

### EUREKA TUBULAR POTATO PLANTER

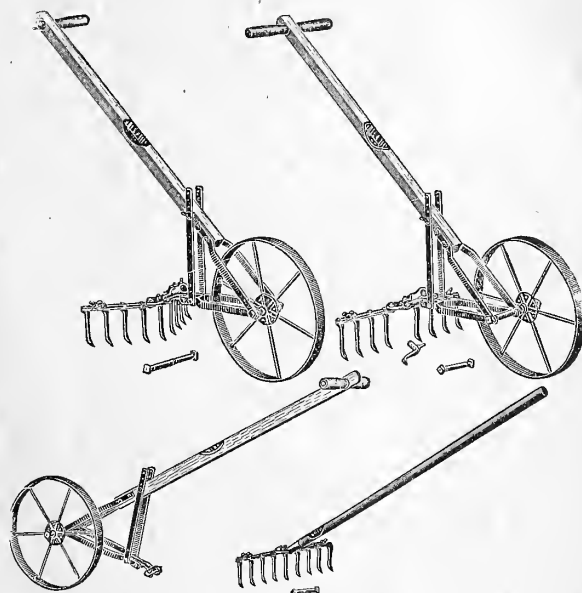
A very handy tool with jaws of crucible steel, points polished. Galvanized iron taper conveying tube, natural finish. Handle well braced, smooth and comfortable. Planter finished in black Japan. Height, 36 inches. Price, \$1.50

### MASTER PLANT SETTER

A man with one of these plant setters can plant more than three men can set by hand. Don't wait for showers, but keep the planter going every day, regardless of the weather and by using liquid fertilizer instead of pure water you will produce the best stand of plants ever seen. No stooping, no more backache. Two barrels of water and a setter will insure a perfect stand of plants, rain or no rain. Price, \$4.00



MASTER  
PLANT  
SETTER



### "PULL-EASY" ADJUSTABLE GARDEN CULTIVATOR

The handiest, most attractive garden cultivator and rake on the market. Is instantly adjusted for any width rows from 7 to 18 inches. Will work one or two rows at a time. Made of the best material and weighs only 3 1/2 lbs. Price, \$1.25

### "PULL-EASY" WHEEL CULTIVATOR

Same tool as above except it is equipped with a wheel and a heavier handle, making it the most satisfactory wheel cultivator made for the money. The cultivator can easily be removed and the small handle attached to make a hand cultivator. Wheel Cultivator..\$2.50

We can furnish a small casting for attaching this cultivator to Planet Jr., Iron Age, etc., for only 15 cents.



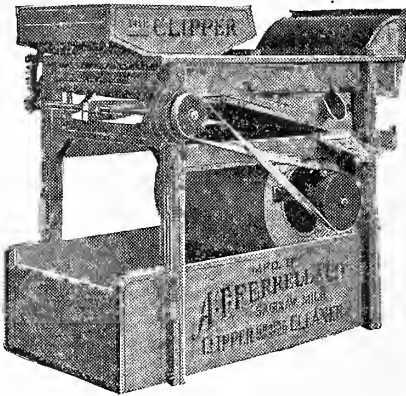
### THE MOSHER BAG HOLDER

Holds firmly bags of various lengths. Weight, 25 lbs. Price, \$3.75.

EUREKA  
POTATO  
PLANTER

## IMPLEMENT DEPARTMENT—Continued

### THE CLIPPER GRAIN AND SEED CLEANER



Clean your grain thoroughly before taking it to market with a Clipper. You will save the price of a machine in a very short time. We use several in our warehouse and heartily recommend it. Is adaptable for cleaning all classes of grain or seeds, such as wheat, corn, oats, barley, rye, beans, peas, buckwheat, millet, clover, alfalfa, timothy, flax, etc., and is suitable for farm or general use. Unlike other mills, the "Clipper" cleans all classes of seed and grain thoroughly in one operation, without any waste, and leaves no tailings to be rehandled. Effectual separation of plantain from clover seed is accomplished, removing all imperfect and foreign seed therefrom, as well as cleaning the perfect seed.

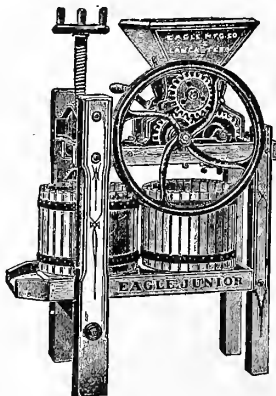
No. 1. Farm size, with 10 screens, complete, \$31.50. No. 2. Warehouse size, \$39.00. For larger sizes ask for special catalogue of Clipper Machines.

#### REPAIRS AND EXTRAS FOR CLIPPER GRAIN AND SEED CLEANER

Screens for No. 1 Mill, wood frame, each, \$1.50.  
Screens for No. 2 Mill, wood frame, each, 1.75.  
Large cog wheel without crank, each, \$1.25.  
Small cog wheel for No. 1 or 2 Mill, each, 30c.  
Handles for crank, 35c.  
Stool for large cog wheel, 50c.  
Fan arm casting, No. 107, 60c.  
Fan journal casting, No. 109, 70c.

### CIDER MILLS

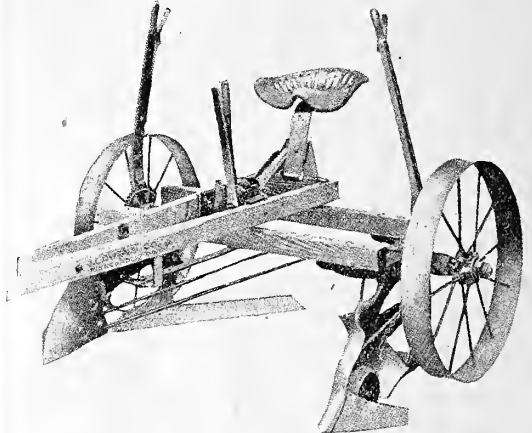
Our mills have adjustable crusher, large tubs, slats are firmly riveted and run easily. These mills will produce fully 25 per cent more cider from same quantity of apples than any other style of mills. The mills crush the fruit thoroughly and the press extracts every drop available.



#### Three Sizes

Junior, 2 tubs, 1 crank (see cut). Price....\$21.00  
Medium, 2 tubs, 1 crank. Price..... 26.00  
Cant-Clog..... 14.50

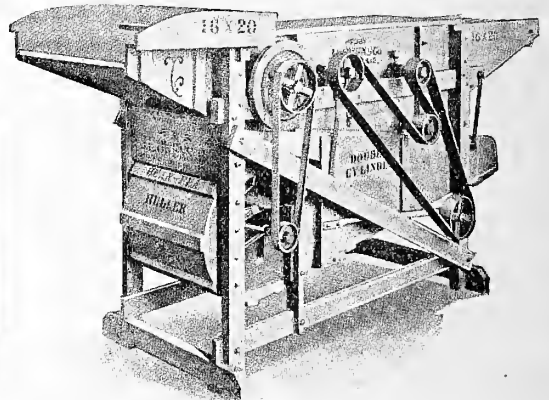
### OWEN BEAN HARVESTER



#### Pulls Two Rows at a Time Does the Work of Ten Men

Made of white ash, white oak and hickory. Wheels are all steel, 30 inches in diameter, with 4-inch concave tire. The shears are made of high carbon steel which will not dull or bend easily. Gathers the vines two rows at a time and brings them together in a windrow at the rear of the machine free from roots and dirt. Operates entirely from the seat, pulling any rows from 28 to 40 inches apart. Shipping weight 400 pounds. Price, complete, \$50.00.

### DO YOUR OWN THRESHING WITH THE OWENS PEA AND BEAN THRESHERS



These machines will thresh all kinds of peas and beans directly from the vines without splitting the seed. The No. 4 is rather small for cow peas, where the growth is very rank and heavy, but will do fine work if fed with a little care. Both of the sizes listed below can be used for threshing small grains, such as wheat, millet, oats, barley, maize, etc., by adding certain small parts to give the proper speed.

The Owens Threshers will produce the seed in the cleanest possible manner because of the large separating space and strong blast with which they are equipped.

No. 4—Capacity, 10 bushels per hour; power required, 1 to 3 H. P.; weight, 400 lbs.; price, \$85.00

No. 16x20—Capacity 14 to 20 bushels per hour; power required, 4 H. P.; weight, 750 lbs.; price, \$156.00.



## IMPLEMENT DEPARTMENT—Continued

### CREAM SEPARATORS

Expert tests have proved conclusively that the use of a Cream Separator in the place of setting or gravity systems of creaming will effect a saving of \$3.50 to \$7.00 worth of butter-fat a year from one cow. If you have 13 cows, that means a minimum saving of \$45.00. The Viking Separator pays for itself in the first year.

The **Viking** is of the disc bowl type, with a small, light weight bowl and fewer discs than any other American made disc separator of equal size and capacity. It is easy to clean, easy to oil, easy to operate, and will skim as closely and in less time than any other separator of equal size, regardless of price. It will skim to .003 or better. We carry in stock Models A, B and C, and can ship promptly upon receipt of your order.

|                                   |            |         |
|-----------------------------------|------------|---------|
| Model A, Capacity 160 to 180 lbs. | Price..... | \$35.00 |
| Model B, Capacity 300 lbs.        | Price..... | 50.00   |
| Model C, Capacity 550 lbs.        | Price..... | 75.00   |
| Model D, Capacity 900 lbs.        | Price..... | 100.00  |

Model D, we can ship from the factory without any delay.



BANNER No. 20

### BANNER ROOT CUTTERS

For Cutting All  
Kinds of Roots  
for Stock  
Feeding

**No. 20.** It is the most rapid cutter ever invented. It cuts everything in the root and vegetable line readily into long, thin, one-half round slices; separates dirt and cut feed; has a self-feeder. Capacity, 30 to 50 bushels per hour. All danger of choking completely obviated by this machine. Weight, 120 lbs. Price, \$14.00.

**No. 15.** Hand and Power, same size and capacity as No. 20. Weight 135 lbs. Price, \$16.00.

**No. 16.** This machine can be used for hand or power, and it is the only cutter having a balance wheel. It is also supplied with a pulley for belt power, and a crank so it can be used by hand; in fact, it is a small size power cutter, and the best machine for hand and power use. It runs easily by hand. This cutter has a self-feeder and dirt separator.

The Pulley is 12 inches in diameter, with a 3-in. face, and fastens to either end of shaft. It has lugs on bottom of legs so it can be fastened to the floor.

Capacity when run by hand, 30 to 50 bushels per hour. Capacity when run by power, 1 to 3 bushels per minute. Weight, 150 pounds. Price, complete, \$21.00.

**No. 10.** Largest Power Cutter; capacity 5 to 7 bushels per minute. Weight, 340 lbs. Price, \$34.00.

**Banner No. 7—The Poultryman's Friend.** Just the thing to cut beets, turnips, carrots, etc., for all kinds of poultry. The knives are adjustable and made of the very best steel. Two to five minutes will cut enough for a large flock of fowls. Weight, 50 lbs. Price, \$6.00.

### PERFECTION SEED CORN GRADER

The Perfection is admitted by all to be the most simple, practical and efficient device ever made for grading seed corn. It is now used by Experiment Stations and thousands of farmers all over the country. It is most RAPID and ACCURATE, grading perfectly one bushel in four minutes.

This Double Screen Grader gets four grades of corn just as it comes from the ear, viz.: 1st, the large, odd-shaped kernels; 2nd, the even, perfect kernels; 3rd, the small kernels; 4th, the flat kernels that are too thin for seed....Price, \$1.50



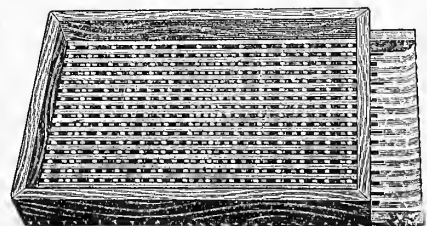
### THE HUMPHREY GRIT CRUSHER

Hens must be supplied with some form of grit, and there are few places in our country where you do not find glistening granite boulders, flint or hard rock, which can be readily reduced into a satisfactory grit. The Humphrey Grit Crusher is a circular mortar, 9 inches in diameter and 11 inches high, with a removable perforated bottom. With one of them you can break enough grit in half an hour to last your fowls several weeks, and the material costs you nothing. Price, \$4.25. Weighs 40 pounds.

Laying hens absolutely must have cut bone and green food in the winter. The machines listed here will supply the right food at the right time and at the lowest possible cost.

### GRAIN SCALE TESTERS

|                            |         |
|----------------------------|---------|
| One pint size, price.....  | \$12.00 |
| One quart size, price..... | 14.00   |
| Two quart size, price..... | 15.00   |



## IMPLEMENT DEPARTMENT—Continued



### BLACK HAWK CORN SHELLER

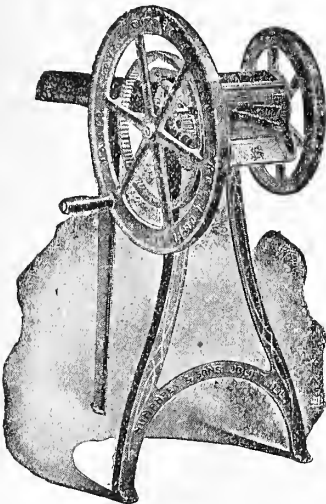
Shells any size thoroughly. Can't be beat for the price. \$2.50.

### BLACK HAWK FEED MILL

Grinds all kinds of grains, fine or coarse. Price, \$3.25.

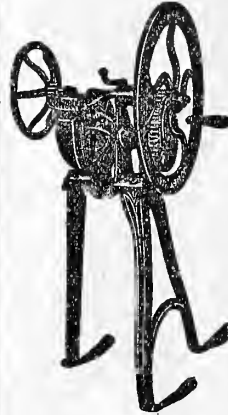
### HUMPHREY'S CLOVER CUTTER

Built by the same people who manufacture the Humphrey Bone Cutter. This is sufficient recommendation to commend it to all. Price, without legs, weighs 85 lbs. \$11.50; with legs, complete, \$14.50.



HUMPHREY'S CLOVER  
CUTTER

### THE HUMPHREY GREEN BONE AND VEGETABLE CUTTER



HUMPHREY'S  
GREEN BONE  
CUTTER

Sold on a positive guarantee to cut more bone in less time and with less labor than any other bone cutter made.

The Humphrey Green Bone and Vegetable Cutter is offered our customers with the assurance that it is the best machine of the kind made today. We recommend it only because we feel that it will give perfect satisfaction. It runs so easily, works so rapidly, that it easily ranks first of all bone cutters. We do not feel that we are called upon to point out the advantages of green cut bone, or to dwell upon its value. That is conceded by every poultryman. In the "Humphrey" they will find the machine they have been looking for. It works to perfection. It will pay for itself in a few months' time, at any season of the year. It cuts any bone; also roots, etc.

No. 1 weighs 120 lbs., hand power only, \$16.50;  
No. 2 power only, \$17.00. No. 2½ weighs 135 lbs.,  
hand and power, \$18.00.

### MANN'S BONE CUTTERS

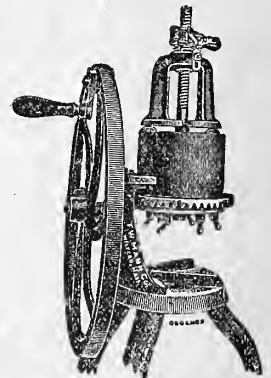
|          |  |         |
|----------|--|---------|
| No. 5C.  | With crank.....                        | \$ 8.50 |
| No. 5B.  | With Balance wheel.....                | 11.50   |
| No. 5BM. | With balance wheel and iron stand..... | 14.50   |
| No. 7.   | New model open hinged cylinder.....    | 17.25   |
| No. 7½.  | Combination hand and power             | 22.50   |

### MANN'S CLOVER CUTTER

Made Entirely of Iron and Steel. Cannot Warp or Shrink

It cuts any kind of hay or clover, either dry or green, very rapidly. Every revolution of the balance wheel produces twelve cuts. Price, complete, \$14.25; without iron legs, can easily be fastened to a stand or to a table, \$11.50.

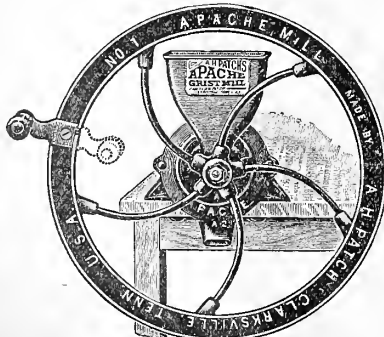
We can furnish other sizes of Mann's machines to those who wish them. Ask for special catalog



MANN'S No. 7

### APACHE GRIST GRILL

The Apache grinds all dry grains such as corn, wheat, rye, coffee, rice and spices. Makes meal, flour, hominy chop, breakfast foods, etc. It will grind a quart of table meal in 2 minutes. The grinding plates can be taken out easily, for cleaning, and will last for years. It is equipped with a large flywheel and is ball-bearing, making it easy to run and a rapid grinder. The adjusting screw is easily turned by hand and is held in any position by a spring. Price, \$7.50 each.



### No. 35 HAND GRINDING MILL

This machine grinds fine or coarse, oats, barley, rye, corn, peas, dry bone, shells, etc., for feeding to poultry. It is strong and well made throughout, and is run either by hand or power. When run by power the capacity is 3 to 4 bushels per hour. Price, \$10.50. Shipping weight, 60 lbs.



# FARM TOOLS PLANET JR. GARDEN TOOLS

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

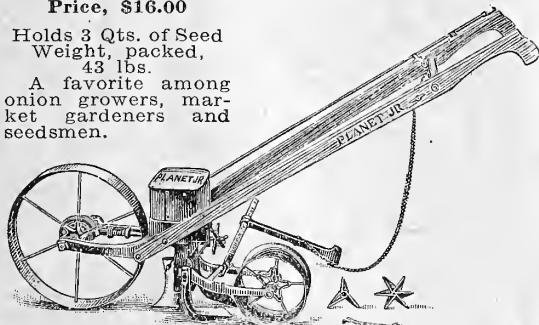
We show in the following pages cuts of the best known machines of the Celebrated Planet Jr. line. The great machines that have become the world's standard. Guaranteed to be better made, better finished, stronger and capable of doing harder work and better work, with less labor to the operator, than any others on the market. Examine any one of them anywhere to be convinced of these facts.

## No. 3 Planet Jr. Hill and Drill Seeder

Price, \$16.00

Holds 3 Qts. of Seed  
Weight, packed,  
43 lbs.

A favorite among  
onion growers, mar-  
ket gardeners and  
seedsmen.



Sows in large or small quantities in drills or in hills, 4, 6, 8, 12, 24 inches apart. Force feed.

The flow of seed is instantly started or stopped by the cut-off rod. No seed wasted at end of rows.

The opening plow is V-shaped, adjustable for depth, leaving the seed in a very narrow line, making close cultivation easy. The index is in plain view at top of handles and graduated for hills or drills.

## No. 5 Planet Jr. Hill and Drill Seeder

Price, \$19.00

16½-inch Steel Driving Wheel. Holds 5 Quarts.

No. 5 is undoubtedly the best seeder for market gardeners, sugar beet and bean growers, onion set growers and other large planters. The style of construction is the same as in No. 3, the valuable mechanical features being common to both.

## No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

Price, Complete, \$17.00

Weight, 50 lbs.

As a Seeder only (No. 4D), \$13.50

Holds 2½ Quarts  
of Seed



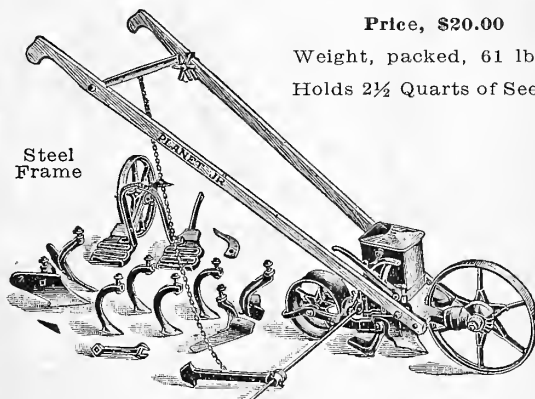
This accurate, durable and easy-running tool sows all garden seeds from the smallest up to peas and beans in hills 4, 6, 8, 12 or 24 inches apart, or in drills at the proper thickness and depth; rolling down and marking out the next row all at one passage. No time is lost. No seed is wasted. By removing the seeder parts and substituting the tool frame, you have a first-class single wheel hoe with a set of specially hardened steel tools, the best made for hoeing, plowing, cultivating, opening furrows, hilling, etc. Makes the care of a garden a pleasure as well as very profitable. Can be used successfully by men, women or growing boys. Pays for itself in a season and will last for years.

## No. 25 Planet Jr. Combined Hill and Drill Seeder, Double and Single Wheel Hoe, Cultivator and Plow

Price, \$20.00

Weight, packed, 61 lbs.

Holds 2½ Quarts of Seed



This combination is intended for gardeners who have a large enough acreage in crops for a double wheel hoe to be used to good advantage, and yet prefer not to buy seeders and wheel hoes separately; and for the family garden where a double wheel hoe is preferred.

As a seeder it is practically the same as the Planet Jr. No. 4, and as a wheel hoe has the same steel frames and cultivating attachments as the Planet Jr. No. 12 Double Wheel Hoe.

Two acres a day can easily be worked, and when it is done, it will be a better job than several men could have done in the same time with hand hoes.

## No. 1 Planet Jr. Combined Drill Seeder and Single Wheel Hoe, Cultivator and Plow

Price, Complete, \$13.50

Holds 3 Pints



The older Planet Jr. No. 1 and No. 2 Seeders have given complete satisfaction over 30 years, are used the world over, and with the exception of the hill and drill seeders are the most perfect known.

The sowing cylinder is a drum of spring brass set between the driving wheels, with a sliding brass band and cam. In drum and band are corresponding diamond shaped discharge openings, quickly adjusted for any kind of seed. Inside the drum, shields cover the openings, and insure regular sowing with a full hopper or a thimbleful.

## No. 2 Planet Jr. Drill Seeder

Holds 3 Quarts.

Price, \$11.00

The No. 2 is similar to No. 1 Planet Jr. Combined Drill, but larger, holding twice as much seed, and having higher wheels and larger roller. Has no cultivating attachments.

# Planet Jr. Farm and Garden Tools

72-page Planet Jr. catalog free. Describes 70 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.



**No. 31 Planet Jr. Combined Drill Seeder and Single Wheel Hoe, Cultivator and Plow**

Price, Complete, \$11.50  
Packed weight, 32 lbs.  
No. 31D, \$9.25  
As a Drill Seeder only  
Packed weight, 26 lbs.

This new combined tool is of great value to thousands of gardeners who have never felt able to own, either a seed drill or a wheel hoe. It will sow even a small packet of garden seed with great precision in a narrow row from  $\frac{1}{4}$  to 2 inches deep. Quickly changed to a splendid wheel hoe. A special machine for the small gardener at a price he can afford to pay.

## No. 33 Planet Jr. Single Wheel Hoe, Cultivator and Plow

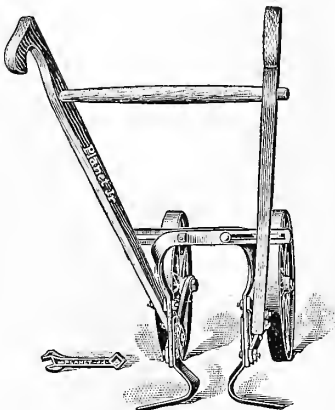
(The No. 31 Without Seeder, Price, \$5.50)

This combination will delight the suburbanite or the growing boy who knows that a certain amount of garden work is to be part of his service. Women, younger or older, will find in this tool a light running wheel hoe that will save them hard work and help much to supply the table with fine vegetables.

## No. 60 Planet Jr. Double Wheel Onion Hoe

Weight, 23 lbs. Price, \$7.00

This new tool is a departure from all previous Wheel Hoes. It is adjustable for the complete culture of onions, or general hoeing. The new all-steel hoes are a decided improvement over the older models. We offer a special Onion Harvester for this tool.



## No. 14 Planet Jr. Double and Single Wheel Disc Hoe, Cultivator and Plow

Price, \$12.50

No. 14 is especially pleasing to all who work peat lands. It has one set of disc hoes, oil tempered; one pair plows, oil tempered; one pair 3-prong cultivator teeth; two leaf lifters. Any of the attachments shown with No. 11 may be added at any time.

## No. 38 Planet Jr. Single Wheel Disc Hoe, Cultivator and Plow

Weight 29 lbs. Price, \$10.00

Includes one set disc hoes, one plow, one pair 3-prong cultivator teeth and one leaf lifter.

## No. 11 Planet Jr. Double Wheel Hoe, Cultivator, Plow and Rake

Price, \$14.00



Steel Frame  
14-inch Steel  
Wheels

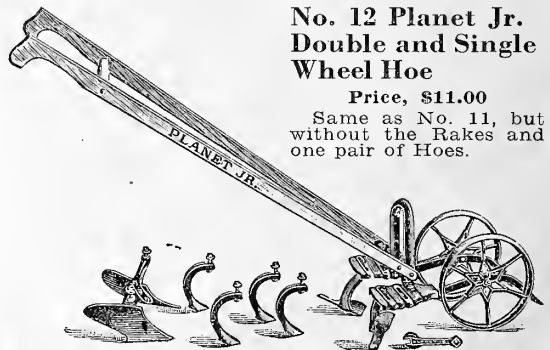
A double and single wheel hoe in one. Straddles crops till 20 inches high, then can be worked between rows with one or two wheels.

The hoes are wonderful weed killers and leave the ground almost level. The cultivator teeth are of improved design and admirable for deep work. The plows are invaluable for opening furrows for manure, etc.; for covering and for plowing to or from the crop. The rakes do fine cultivation and gather up trash. The leaf lifters enable close work when plants are large or leaves are flat on the ground. The greatest hand cultivating tool made. All steels are now hardened by a new process, giving longer wearing and easier running tools.

## No. 12 Planet Jr. Double and Single Wheel Hoe

Price, \$11.00

Same as No. 11, but without the Rakes and one pair of Hoes.



This tool is identical with No. 11 Double Wheel Hoe, except that it has one pair plows, one pair hoes, four cultivator teeth and a pair of leaf lifters only, and is sold at a correspondingly less price. The attachments sold with No. 12 are what gardeners use most, and the others can be added as wanted.



No. 14 PLANET JR.



# Planet Jr. Farm and Garden Tools

If you are a farmer, trucker, orchardist, or suburbanite with a kitchen-garden, there is a Planet Jr. made for your special need. You can't afford to work without a Planet Jr.



**No. 16 Planet Jr. Single Wheel Hoe, Cultivator, Rake and Plow**

Price, \$9.00

These Single Wheel Hoes are the highest type of their class. They have a great variety of attachments which adapt them to a large variety of work, and there is scarcely any garden cultivation they will not do.

Nos. 16, 17, 17½ and 18 have the same steel wheels, frames and handles, but the attachments sold with each vary.

The handles are adjustable in height. The frame is steel, convenient and strong with quick change device by which to exchange the tools without removing the nuts.

All attachments are of a special pattern, carefully tested by practical men; no others ever offered compare with them. All the steel parts are high carbon steel, oil tempered and specially hardened, finely formed, finished and polished and work to a charm. Everyone who cultivates needs one.

## No. 17 Planet Jr. Single Wheel Hoe

Price, \$7.50

You can do more and better hoeing with it in one day than you can do in three days with a hand hoe. The No. 17 has a pair of 6-inch hoes, a plow and a set of cultivator teeth, an outfit sufficient for most garden work.

## No. 17½ Planet Jr. Single Wheel Hoe

Price, \$6.60

This tool is identical with No. 16, except in equipment. The pair of 6-inch hoes, three cultivator teeth and leaf lifter which go with it, are all the finest of their kind.

## No. 18 Single Wheel Hoe

Price, \$5.50

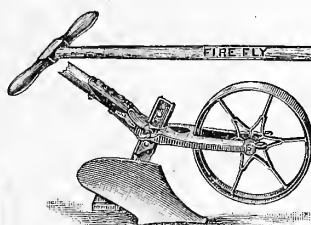
This tool has one pair of 6-inch hoes only—the tools that are most constantly useful throughout the season. Other tools can be added as needed.



**No. 19 Planet Jr. Single Wheel Hoe**

Price, \$5.50

This attractive implement is especially designed for the farmer's garden work, though it offers to every one with either field or garden a cheap and effective tool for wheel-hoe operations. It is strong, well made, and quickly adjusted. The height of the handles can be changed to suit man or woman, boy or girl.



**Fire-Fly Garden Plow**

PRICE \$3.50

It will throw a furrow four to six inches wide and one to three inches deep, and deeper by going a second time in each furrow. It opens fine furrows for manure or seeds and covers them, and opens up rows for all kinds of plant setting. In cultivating, plow away, weed the row and plow back again. This tool will enable a busy man to do in his spare minutes nearly all the work of a family garden. Chicken raisers find it of great advantage in plowing up their scratching yards.

## Other Planet Jr. Hand Tools

|                     | SEEDERS | Packed Weight in Lbs. | Price   |
|---------------------|---------|-----------------------|---------|
| No. 6.....          |         | 63                    | \$22.50 |
| No. 6D, plain.....  |         | 54                    | 19.00   |
| No. 20.....         |         | 83                    | 30.00   |
| No. 20D, plain..... |         | 61                    | 26.50   |
| No. 21.....         |         | 95                    | 35.00   |
| No. 28.....         |         | 64                    | 23.00   |

|                       | WHEEL HOES |    | Price   |
|-----------------------|------------|----|---------|
| No. 13.....           |            | 28 | \$ 7.75 |
| No. 18½.....          |            | 24 | 7.00    |
| No. 30.....           |            | 34 | 12.50   |
| No. 36.....           |            | 33 | 9.50    |
| No. 38.....           |            | 29 | 10.00   |
| No. 39.....           |            | 26 | 9.00    |
| No. 39½.....          |            | 20 | 6.25    |
| Star Pulverizer.....  |            | 10 | 7.00    |
| Grass Edger.....      |            | 26 | 8.00    |
| Five-Row Marker.....  |            | 83 | 20.00   |
| Three-Row Marker..... |            | 65 | 15.00   |
| Two-Row Marker.....   |            | 20 | 7.00    |
| One-Row Marker.....   |            | 6  | 4.00    |

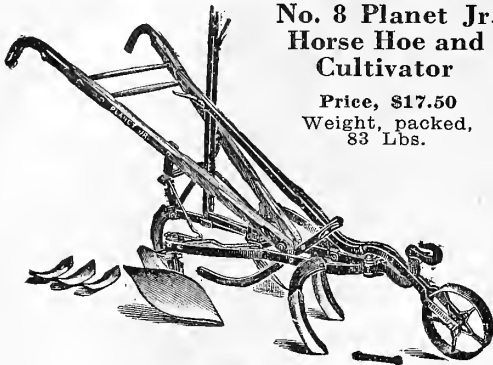
|                       | SLIDE HOES |    | Price   |
|-----------------------|------------|----|---------|
| No. 65 Slide Hoe..... |            | 9  | \$ 5.00 |
| No. 66 Slide Hoe..... |            | 12 | 5.50    |

## Extras for Planet Jr. Hand Machines

|  | Price  | Weight Lbs. Oz. |
|--|--------|-----------------|
| Disc Hoes..... pair  | \$3.00 | 5               |
| 4½-inch Hoes C. & D1..... pair                               | 1.20   | 2               |
| 6-inch Hoes C. & D1..... pair                                | 1.30   | 2               |
| 7-inch Hoes C. & D1..... pair                                | 1.50   | 2               |
| 8-inch Hoes C. & D1..... pair                                | 1.60   | 2               |
| Peat Land Hoes..... pair                                     | 2.00   | 5               |
| 4½-inch Hoe Steels 552/553..... pair                         | .60    | 6               |
| 6-inch Hoe Steels 1092/1093..... pair                        | .70    | 8               |
| 7-inch Hoe Steels 1700/1701..... pair                        | .90    | 12              |
| 8-inch Hoe Steels 997/998..... pair                          | 1.00   | 1               |
| 3-prong Cultivator Teeth..... pair                           | 1.75   | 2               |
| Cultivator Teeth, Regular, No. 1395, all steel, each.....    | .40    | 7               |
| Narrow Cultivator Teeth, No. 2775, all steel, each.....      | .40    | 7               |
| Wheel Hoe Sweeps for Single Wheel Hoes, per set (three)..... | 2.00   | 2               |
| Wheel Hoe Sweeps for Double Wheel Hoes, per set (four).....  | 2.75   | 3               |
| Rakes, Three-Tooth..... pair                                 | 1.00   | 1               |
| Rakes, Five-Tooth..... pair                                  | 1.30   | 1               |
| Plows for D. W. H..... pair                                  | 1.50   | 2               |
| Plow Steels for D. W. H..... pair                            | .90    | 1               |
| Plows for Single Wheel Hoes, each.....                       | 1.50   | 2               |
| Plow Steels for Single Wheel Hoes.....                       | .90    | 12              |
| Double Mouldboard Plows.....                                 | 2.00   | 2               |
| Path Cleaner, 12-inch.....                                   | 2.25   | 2               |
| Onion Harvester, 8-inch.....                                 | 1.50   | 2               |
| Marker Attach. for Wheel Hoes.....                           | 1.50   | 4               |
| Handles..... pair  | 1.00   | 3               |
| No. 3 Watering and Formaldehyde Attachment.....              | 7.00   | 12              |
| One-Row Spot Marker Attachment for Wheel Hoes.....           | 4.00   | 11              |

# Planet Jr. Horse Tools

Invaluable for almost every known crop grown in rows. You can't afford to farm without them.



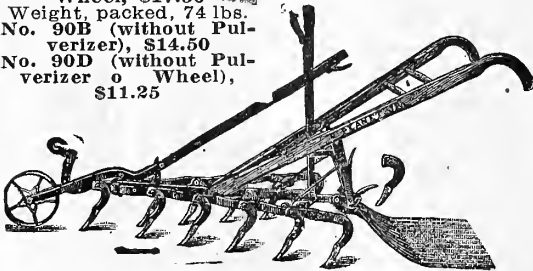
**No. 8 Planet Jr. Horse Hoe and Cultivator**

Price, \$17.50  
Weight, packed, 83 Lbs.

No other cultivating machine is so widely known for it is in use throughout the civilized world. So strongly built as to withstand incredible strain, yet light and easy to handle. Opens and closes furrows, hoes right up to the plants without danger of injury, throws dirt to or from the row and throws back from center again. Cultivates any depth desired, and adjusts for any width. The teeth, made of beveled steel, specially hardened, retain their cutting shape and outwear anything made. The steel wheel won't clog. The handles adjust up, down or sidewise.

## No. 90 Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer

Complete, with Steel Wheel, \$17.50  
Weight, packed, 74 lbs.  
No. 90B (without Pulverizer), \$14.50  
No. 90D (without Pulverizer or Wheel), \$11.25



Gardeners cultivate better than formerly and find it pays. The chisel-shaped teeth on this tool go as deep or shallow as you like, close to row, without injuring plants, cut out all weeds, stir the soil and mellow and fine it as with a garden rake. Any width from 12 to 32 inches. A special favorite with strawberry and tobacco growers, market gardeners, truckers and small fruit growers. The wheel won't clog; the pulverizer leaves the ground in perfect condition for seeding or plant setting.

**Strawberry Runner Cutter.** A 10-inch flat steel disc mounted on an outrigger. Extra \$2.75.

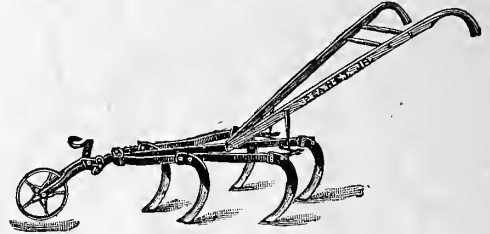
Hoes can be supplied which do admirable close level cultivation; splendid for beets and other crops. Per pair, \$2.25.

**18-inch Sweep Attachment.** Can be used in place of pulverizer for leveling and weed cutting. Price, with standard, \$1.50.

Planet Jr. Tools are made better, last longer, and do more thorough work; save time, lighten labor, and get bigger crops. They are the tools for real economy. Fully guaranteed. Come here for the Planet Jr. you need.

## No. 101 Planet Jr. Plain Cultivator

Price, with wheel, \$12.00  
Packed weight, 56 lbs.



The expander lever on this new tool, instead of standing perpendicular, slants backward between the handles, so it can't be bent or broken, and won't injure crops under cultivation. Its weight adapts it particularly to use in light land, but it is strong enough for use anywhere, and is so simple in construction and has so few parts, it can't get out of order. The cultivator teeth are made of high carbon, beveled steel, and will retain their shape.

Turning shovels, regular and one-sided sweeps, furrowers and any width cultivator steels fit this.

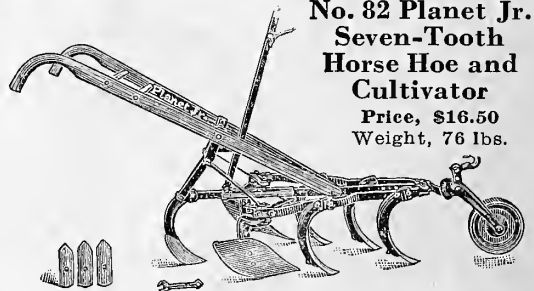
## No. 7 Planet Jr. Horse Hoe and Cultivator

Price, \$16.50. Weight, packed, 77 lbs.

The No. 7 Horse Hoe is the No. 8 without the depth regulator. It works the same, except that it lacks the steadiness and control of depth made possible by the depth regulator.

## No. 82 Planet Jr. Seven-Tooth Horse Hoe and Cultivator

Price, \$16.50  
Weight, 76 lbs.



The No. 82 Planet Jr. Seven-Tooth Horse Hoe is a new machine which is bound to be popular. The zig-zag frame and the seven teeth insure fine and thorough cultivation. The machine will take all the extra attachments which fit our Nos. 7 and 8 Horse Hoes, and the whole combination is one which is invaluable for hoeing, hilling or cultivating.

## No. 107 Planet Jr. Seven-Tooth Plain Cultivator

Price, \$14.50  
Weight, 66 lbs.

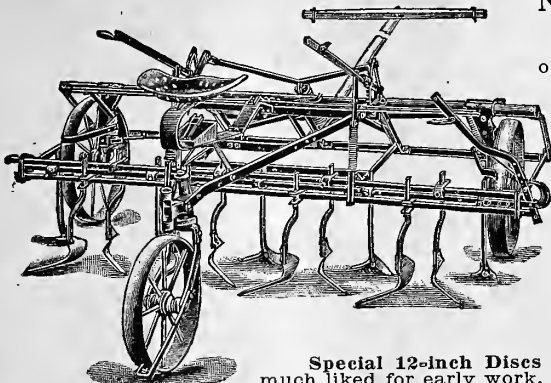


This new light cultivator does finer work than the older style five-tooth. It is strong, convenient and easily handled. Better cultivation is demanded today; finer, closer work and surer destruction to weeds. With more teeth it is much steadier running than the regular five-tooth. The outside teeth may be removed for very narrow work.

Turning shovels or plows, and the rear shovel steel, can be added to the No. 107, for plowing to or from the row, opening furrows for covering, etc.



## PLANET JR. HORSE TOOLS—Continued



**No. 3 PLANET JR.** Special 12-inch Discs to much liked for early work. or five on each side of center.

This is a modern orchard and universal cultivator, built to combine strength, lightness, adjustability and efficiency to the fullest extent in one tool, representing in itself the advantages of our earlier patterns, combined with important improvements.

The Steel Wheels are low and entirely enclosed by the frame. Have twelve spokes instead of ten as heretofore.

The Tongue is Steel, hollow and of rectangular section.

The Frame is high carbon steel, compact in form, well braced, heavy and strong.

Without the Extensions, it cuts 4 feet in width, having seven stiff steel standards, carrying  $2\frac{1}{2} \times 10$ -inch teeth.

With the Extensions, it cuts 6 feet 6 inches, carrying eleven teeth, and the frame can be changed to cut any width from  $6\frac{1}{2}$  down to 4 feet.

**No. 41.** Price with two-tooth extensions \$76.50. Packed weight 483 pounds.

**No. 41B.** Price with one-tooth extension \$68.00. Packed weight 403 pounds.

**No. 41D.** Price without extensions \$62.00. Packed weight 376 pounds.

**Irrigation Steels,** only per set of three . . . \$4.50

We supply a set of ten discs and special standards as an extra.

Price, 16-inch, \$8.25 per pair. This makes a capital disc harrow, light in draft and under perfect control from a comfortable seat.

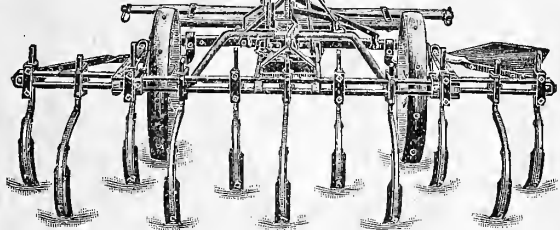
### No. 3 Planet Jr. Four-Row Sugar Beet and Bean Horse Hoe and Cultivator

This magnificent tool hoes four rows at once, 18, 20 or 22 inches apart, or three rows, 24, 26, 28 or 30 inches apart, or two rows 36 inches to 42 inches. Two levers, assisted by a powerful spring, control the depth to a nicety or easily lift the tool bars clear. The patent hoes have a down cut next the row and a plant shield; the curved shape allows the closest hoeing at the surface, while rounding away from the roots. The standard is set over away from the beet tops and the front of the hoe is a leaf guard. The wheels are changeable in width for all rows from 18 inches up.

Price, including thirteen  $1\frac{1}{4} \times 8$ -inch cultivator teeth and five irrigation shovels and standard, four pairs 6-inch beet hoes, five 5-inch improved sweeps, three 8-inch improved sweeps \$130.00. Packed weight, 690 lbs.

**No. 3D.** Less cultivator teeth and irrigation shovels, \$115.00. Packed weight, 600 lbs. to use in place of hoes; price, \$5.25 per pair. Very can be used also to prepare ground for seeding, four

### No. 41 Planet Jr. Orchard and Universal Cultivator



**No. 41 ORCHARD CULTIVATOR**

### No. 72 Planet Jr. Two-Row Pivot Wheel Cultivator

The No. 72 Planet Jr. Two-Row Cultivator is the highest type of two-horse cultivators. It completes two rows at one passage, all widths from 28 to 44 inches, inclusive, and is specially built to do this when the rows are irregular; the operator making changes in width of gangs while in motion to suit the varying rows by means of convenient levers. Important improvements have been made recently. The tongue-lever ratchet and pin are now made of steel, as are also the ratchets and pins of the gang-regulating levers, while adjustable stops make the tool return to the same depth of work automatically after turning at the headlands. Cold rolled  $1\frac{1}{4}$ -inch steel axles and the dust-proof pivot bearings are provided with grease cups. Heavy steel balance springs, adjustable, make the handling of the gangs very easy, even when equipped with spring-trip standards.

As a Single-Row Cultivator this tool works from 28 inches up to 5 feet apart.

In Listed Corn the hinged tongue, adjustable frame and front combine to make this difficult cultivation satisfactory.

In Checkrows it surprises everyone. Planted with two-row seeders, the gang working between the rows need not be changed from one end of the row to the other, so that the driver has but one lever to handle. When going crosswise of the rows, he need not change either lever, because the rows are always the same distance apart. Simply use the pivot wheel to steer when necessary.

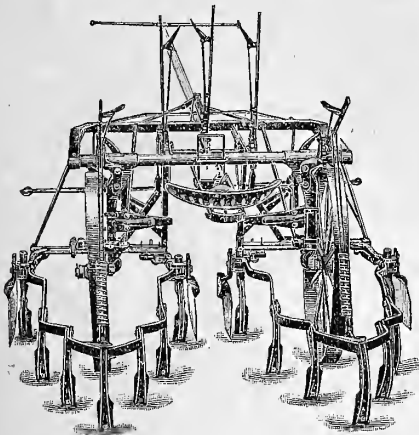
The Tool Has Five Levers, and they simplify its management so that a boy can operate it with success. The center lever adjusts the hinged tongue regulating the depth of the front and leveling up the machine to suit all heights of neck yokes. The outside levers regulate the depth of the teeth in the rear, changing the widths of the gangs to suit irregular planting without stopping the team. The levers open or close both sides of the frame equally, so that the teeth always work the spaces thoroughly.

Equipment includes fourteen  $2\frac{1}{4} \times 8$ -inch teeth, four large 7-inch plows, two wide 8-inch shovels and two pairs plant guards. Price complete \$110.00. Packed weight 585 lbs.

### No. 76 Planet Jr. Pivot Wheel Riding Cultivator, Plow, Furrow Ridger and Disc Hoe

This new implement combines in itself nearly all the advantages of our earlier one-row cultivators. The arch is high, frame and tongue are of steel, and the change in width of the wheels is all that could be desired. It has improved levers and the gang frame is stronger than ever. The extra wide arch is very desirable.

**No. 76.** Price complete, \$86.00; weight 522 lbs. **No. 76B.** with 8 cultivator teeth, 2 plant shields, 2 pairs plows and 2 8-inch shovels; \$83.75; weight 517 lbs. **No. 76C.** with 8 cultivator teeth, 2 plant shields and 1 pair 7-inch plows, \$81.50; weight 508 lbs. With roller bearings, \$8.00 extra.



**No. 72 PLANET JR. CULTIVATOR**





## BEE SUPPLY DEPARTMENT

When Bee Supplies are wanted by mail, add postage

### GOOD BOOKS FOR BEE-KEEPERS

These Prices are Subject to Change without Notice

**Amateur Bee-Keepers**, 80 pages; price, 25c postpaid.

**A, B, C of Bee Culture**, by A. I. Root; \$2.50, postpaid.

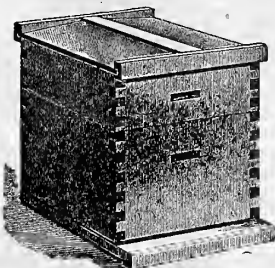
**Langstroth on the Honey Bee**, revised by Dadant; \$1.20, postpaid; not postpaid, \$1.00.

**Advanced Bee Culture**, new edition, by Hutchinson; \$1.40, postpaid; not postpaid, \$1.25.

**Semi-Monthly Magazine—Bee Gleanings.** Very helpful and interesting. Send us your subscriptions; \$1.00 per year.

### DOVETAILED HIVE FOR COMB HONEY • 1½ AND 2-STORY

This hive is furnished either in eight-frame or ten-frame size. It consists of a plain box of ¾-inch No. 1 white pine, 13¼x20 inches outside measure, 9¾ inches deep, rabbeted ½x¾ deep for frames to rest, with hand holes on outside. Eight or ten improved Hoffman frames, and follower board hang in this hive with a bee space above and below.



Follower board is cleated on the ends to prevent warping, and if the cleats are nailed on properly they will form a full bee-space on the side of board going next to the last frame. The bottom board is 14x21 inches, and is cleated, while the cleat in front is leveled down even with the board. The back cleat forms a bee-space below the frames, leaving an entrance in front with alighting board two inches wide. By this means the hive is not cut to form an entrance. This bottom may be used as a cover in an emergency, or it may be fastened permanently to the hive if desired.

The super is 4¾ inches deep, with slotted section-holders, sawed slotted separators, follower, and springs. When two supers are included with each hive it is then a two-story hive for comb honey.

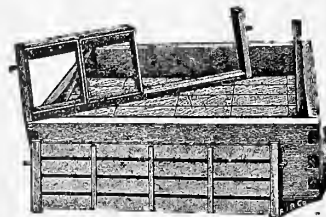
All our hives are furnished with Excelsior cover, which is the best hive cover made, unless otherwise ordered.

This cover has a flat surface on the under side which affords a proper bee space over the brood frames, yet at the same time it is a sloping cover, and will shed the rain as well as gable cover (which it really is), and has the advantage of double covers

made of thin lumber (which splits up so badly), as it is made from solid boards 1 inch thick at the center and ¾ inch at the outer edge. There are only five pieces in this cover, namely: 2 cover boards, 2 cleats and 1 ridge-board.

### DANZENBAKER HIVE

This hive is slightly shallower than the regular Dovetailed Hive, but has exactly the same cubic capacity as the eight-frame. The brood-frames are just enough shallower so that the two inches of honey that is usually put above the brood in a regular standard hive frame is crowded up into the supers, where it will bring the highest market price. It is made in 10-frame size only. The brood-frames are closed-end 7½ inches deep. 17 inches long and each is supported by a pivot in the center of the end-bars so that it may be readily reversed. The reversing feature makes it possible to get combs built clear out to the end. The frames are closed-end, and stop those chilling air currents across the faces of the combs, a matter of supreme importance in the rearing of brood in the spring.



DANZENBAKER SUPER

The super takes 4x5x1½ plain sections. This is a deep super, 5½ inches deep, without rabbit in top edge, but with hanger cleats to support Danzenbaker section-holders and M fences with end wedges or springs.

It is made 16½ inches wide to admit easily eight Danzenbaker section-holders and nine M fences with springs.

### PRICES OF HIVES FOR COMB HONEY

|  | Designating Letters and Numbers for 8 & 10 Frame | Nailed and Painted each | IN FLAT        |                  |             |
|--|--|-------------------------|----------------|------------------|-------------|
|  |  |                         | One Hive       | Five Hives       | Weight of 5 |
| The one-story Dovetailed hive includes a cover, bottom and brood chamber, with frames, division board and nails. Any style of super or upper story may be used on this hive. |  |                         |                |                  |             |
| The one-and-one-half-story hive includes a cover, bottom, brood chamber, complete, and one super with inside fixtures.   |  |                         |                |                  |             |
| The two-story hive includes the same with one more super. Furnished in either eight or ten frame size.   |  |                         |                |                  |             |
| 1-story Dov'd hive, no super or upper story, with frame and division board, no foundation starters.....  | AE5-8<br>AE5-10                                  | \$3.00<br>3.20          | \$2.35<br>2.45 | \$10.80<br>11.70 | 117<br>132  |
| 1½-story Dov'd hive for comb honey in 4¼x4¼x1½ bee-way sections, without sections or foundation starters..   | AE52S-8<br>AE52S-10                              | 4.10<br>4.30            | 3.15<br>3.35   | 14.10<br>15.25   | 147<br>167  |
| 2-story Dov'd hive for comb honey in 4¼x4¼x1½ bee-way sections, without section or foundation starters..   | AE522S-8<br>AE522S-10                            | 4.90<br>5.10            | 4.00<br>4.15   | 17.10<br>18.25   | 170<br>182  |
| 1½-story Dov'd hive for comb honey in 4¼x4¼x1½ plain sections without section or foundation starters.....  | AE52P-8<br>AE52P-10                              | 4.10<br>4.30            | 3.15<br>3.35   | 14.10<br>15.30   | 144<br>163  |
| 2-story Dov'd hive for comb honey in 4¼x4¼x1½ plain sections without section or foundation starters.....   | AE522P-8<br>AE522P-10                            | 4.90<br>5.10            | 4.00<br>4.15   | 17.10<br>18.25   | 165<br>177  |
| 1-story Danzenbaker hives, used as brood hives, without foundation.....  | AED5-10  | 3.15                    | 2.35           | 11.40            | 100         |
| 1½-story Danzenbaker hives, without sections or foundation starters.....   | AED52M-10  | 4.20                    | 3.50           | 15.30            | 150         |

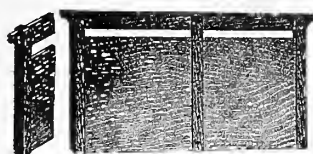
## BEE SUPPLY DEPARTMENT—Continued

### TWO-STORY DOVETAILED HIVES FOR EXTRACTED HONEY IN L FRAMES

| This 2-story hive includes a cover, bottom and two bodies which make a brood-chamber and upper story, each fitted with frames and inside fixtures. Each hive is furnished in either eight or ten frame size. | Designating Letters and Numbers for 8 & 10 Frame | Nailed and Painted each | IN FLAT        |                  |             |
|--|--|-------------------------|----------------|------------------|-------------|
|  |  |                         | One Hive       | Five of 5        | Weight of 5 |
| 2-story Dov'd hive for extracted honey in L frames (9½) in full depth upper story; no foundation starters....  | AE55-8<br>AE55-10                                | \$4.90<br>5.10          | \$3.60<br>3.75 | \$17.10<br>18.00 | 160<br>175  |

### PRICES OF HIVE PARTS

| NAME AND STYLE  | Nailed and Painted Each | K. D. IN FLAT |        |        | Weight of 10 |
|---|-------------------------|---------------|--------|--------|--------------|
|   |                         | Each          | Five   | Ten    |              |
| Supers with section holders, etc., for 8-frame dovetail hives...  | \$0.96                  | \$0.85        | \$3.90 | \$7.50 | 60 lbs.      |
| Supers with section holders, etc., for 10-frame hives.....  | 1.02                    | .90           | 4.10   | 7.75   | 70 lbs.      |
| Supers with flat tins only for 8-frame dovetail hives.....  | .72                     | .60           | 2.40   | 4.50   | 40 lbs.      |
| Supers with flat tins only for 10-frame dovetail hives.....   | .78                     | .66           | 2.50   | 4.60   | 42 lbs.      |
| Danzenbaker supers taking 4x5x1½ Plain Sections, include hanger-cleated end stops, section holders, M fences and springs: |                         |               |        |        |              |
| For 8-frame dovetailed hives.....   | 1.20                    | 1.10          | 4.80   | 9.30   | 80 lbs.      |
| For 10-frame dovetailed hives, or Danz. hives.....  | 1.25                    | 1.15          | 5.10   | 9.90   | 90 lbs.      |
| Bodies, with tin rabbets only, 8-frame.....   | .96                     | .78           | 3.50   | 6.60   | 92 lbs.      |
| Bodies, with tin rabbets only, 10-frame.....  | 1.02                    | .85           | 3.75   | 7.20   | 94 lbs.      |
| E—Excelsior covers, complete for 8-frame hives.....   | .66                     | .55           | 2.40   | 4.70   | 48 lbs.      |
| E—Excelsior covers, complete for 10-frame hives.....  | .72                     | .60           | 2.70   | 5.30   | 55 lbs.      |
| F—Double air-spaced covers, 8-frame hives.....  | .72                     | .60           | 2.90   | 5.40   | 47 lbs.      |
| F—Double air-spaced covers, 10-frame hives.....   | .78                     | .66           | 3.20   | 6.15   | 55 lbs.      |
| R—Metal-roofed double covers, 8-frame hives, without super cover.....   | .78                     | .66           | 3.15   | 6.00   | 62 lbs.      |
| R—Metal-roofed double covers, 10-frame hives, without super cover.....  | .85                     | .72           | 3.55   | 6.50   | 68 lbs.      |
| Ex—Colorado Telescope covers, 8-frame hives, same as E with addition of 2 side cleats and super covers.....               | .90                     | .78           | 3.65   | 6.75   | 58 lbs.      |
| Ex—Colorado Telescope covers, 10-frame hives.....   | .96                     | .85           | 3.90   | 6.85   | 64 lbs.      |
| Super Covers, 8 or 10-frame.....  | .30                     | .15           | 2.30   |        |              |
| A and B bottoms, complete, 8-frame hives.....   | .55                     | .42           | 1.80   | 3.50   | 60 lbs.      |
| A and B bottoms, complete, 10-frame hives.....  | .60                     | .50           | 2.10   | 3.85   | 70 lbs.      |



DIVISION BOARDS

#### Plain Division

**Boards, nailed.**  
Each, 15c; 5 for 70c; 10 for \$1.25.

#### Plain Division

**Boards, K. D., not nailed.** 10 for \$1.00.



**Sawed Wood Separators, slotted,** 18½x4½ in., 100 for \$1.50; 500 for \$7.25.



S. & M. FENCES

**P-Fences or Cleated Separators** for ¾ plain section, in plain section holders. 100 for \$2.80.

**S—Fences or Cleated Separators, used with ¾ plain sections in slotted section holders.** 100 for \$2.80.

**M—Fences or Cleated Separators, used in Danzenbaker super, with 4x5x1½ plain sections.** 100 for \$2.80.

### SECTION HOLDERS



**Section Holder Slats,** ¼ in. thick, 18½x1½ in. wide, 10 for 20c; 100 for \$1.40; 500 for \$6.00.

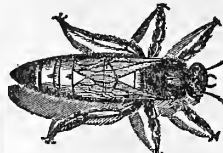
**Section Holder Slats,** ¾ in. thick, 18½x1½ in. wide, 10 for 25c; 100 for \$1.55; 500 for \$7.20.

**Section Holders, slotted,** 18½x1½ in. wide, 10 for 30c; 100 for \$2.75; 500 for \$13.50.

**Danzenbaker Section Holders,** 10 for 35c; 100 for \$3.25; 500 for \$15.00.

**Wedges for Hoffman Frames,** 100 for 50c.

### QUEEN BEES



We can furnish Queen Bees from May 15th until September 15th.

Imported Italian Tested Queen from \$3.00 to \$5.00 each.

Home Bred Italian Tested Queen, each..... \$2.75  
Home Bred Italian Untested Queen, each.... 1.65  
Southern Bred Italian Tested Queen, each.... 1.75  
Southern Bred Italian Untested Queen, each.. 1.25

### WEED PROCESS COMB FOUNDATION



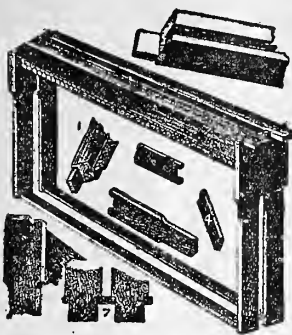
| QUANTITY                       | Medium Brood.            | Thin.                     | Extra Thin.               |
|--------------------------------|--------------------------|---------------------------|---------------------------|
|                                | 5½ to 6 sq. feet per lb. | 10 to 11 sq. feet per lb. | 12 to 13 sq. feet per lb. |
| 1, 2, 5-lb. boxes, per lb..... | 85c                      | 95c                       | 98c                       |
| 10-lb. boxes, per lb.....      | 82c                      | 91c                       | 94c                       |
| 25-lb. boxes, per lb.....      | 79c                      | 89c                       | 92c                       |

Write for prices on large quantities.



## BEE SUPPLY DEPARTMENT—Continued

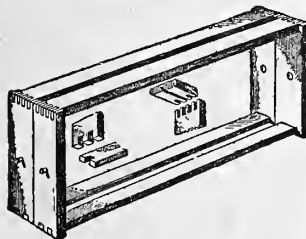
### BROOD AND HONEY EXTRACTING FRAMES



**END SPACING HOFFMAN FRAMES**

tailed Hives, unless ordered otherwise. The peculiar merit of this frame is that it can be handled in lots of two, three or four, all at one time, and the same can be returned to the hive at one operation.

#### DANZENBAKER CLOSED-END FRAMES



**DANZENBAKER CLOSED-END FRAMES**

comb entirely closed up. This secures solid cards of combs without any pop-holes, or space, between the frame proper and the comb itself.

#### SHALLOW EXTRACTING FRAMES



**SHALLOW EXTRACTING FRAME**

thick by 5½ inches long, end-spaced with staple same as full-depth Hoffman frames. 10 for 45c; 100 for \$4.30.

**HOFFMAN FRAMES**  
Furnished Staple End Spacing Unless Ordered Otherwise. 10 for 50c; 100 for \$4.50.

This is a fixed frame that is now used universally in the United States, and has become very popular. The ease with which it is manipulated is very satisfactory. The end bars are enlarged toward the top. They are ¾ in. thick; 1 in. wide at the narrowest part and 1½ in. at the widest. This is the style in our Dove-

Ten for 45c; 100 for \$4.30.

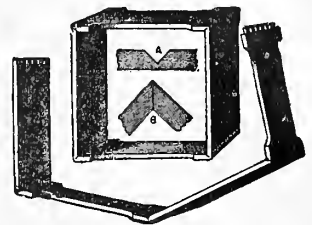
This we consider the best of any of the closed-end type of frames ever sold. As it is supported by pivots in each end of the end-bars it is reversible. A comb put in the hive upside down for a day or two during the honey flow will have the space between the bottom bar (now at the top) and the comb entirely closed up. This secures solid cards of combs without any pop-holes, or space, between the frame proper and the comb itself.

#### BASSWOOD ONE-PIECE POLISHED SECTIONS

Made in two styles: Open top and bottom, and plain or no bee-way. Average weight of 1,000 sections is seventy pounds.

#### FIRST QUALITY BASSWOOD SECTIONS—No. 1

These are to be perfect white sections, all of those with weather stains or black spots on them being culled out. Indeed, they are "snow-white." If you intend to market your honey in the large cities, it will pay you to use the No. 1 white sections.



**OPEN TOP—FIG. 4 POPULAR STYLE**



#### PLAIN OR NO BEE-WAY STYLE

Unquestionably our sections this year are second to none. We will be very pleased to mail samples on application.

#### SECOND QUALITY SECTIONS—No. 2

Second quality sections are those that we do not like to put in the first quality. Understand they are perfect sections as far as workmanship is concerned, but they have dark streaks or spots on them; or, in other words, they are what is left after the first qualities have been selected out. If you are producing honey for your own use, these will answer all the purposes of a first quality section.

Several of our very successful apiarists in Colorado are using these sections.

#### Price List of Sections

| Regular size, 4¼x4¼x1½.   | No. 1         | No. 2  |
|---|---------------|--------|
| Per 100.....  | \$1.10        | \$1.00 |
| Per 250.....  | 2.25          | 2.00   |
| Per 500.....  | 3.75          | 3.50   |
| Per 1,000.....  | 7.00          | 6.36   |
| Per 5,000, at 1,000.....  | 6.50          | 5.90   |
| Plain sections, 4¼x4¼x1½, No. 1 (Less than only.....25c less per 1,000)   | 1,000 lots    |        |
| Plain sections, 4x5x1½, No. 1 (only same price as.....25c less per 1,000) | regular size. |        |

Ask for special prices on large quantities.

### TIN AND WIRE PARTS, HAMMERS AND PAINT

**T Tins** for 8-frame hive supers, \$1.45 per 100.  
**T Tins** for 10-frame hive supers, \$1.70 per 100.  
**Flat Tins** for section holder rest, 8-frame, 75c per 100; for 10-frame, 90c per 100.  
**Tin Rabbets** for frame rests, 8-frame hives, \$1.45 per 100; 10-frame hives, \$1.70 per 100.

**Bent Staples** for T tins, per lb. 55c.

**End Spacing Staples**, per lb. 30c.

**Hive Staples**, 1½ in. wide, are used to fasten the bottom, roof or supers to hive body and are readily removed with screw driver or chisel and used again. Per lb. 30c.

**Wire, Bright Tinned, No. 30**, for frames. For lb. spool 45c; ½ lb. spool 30c.

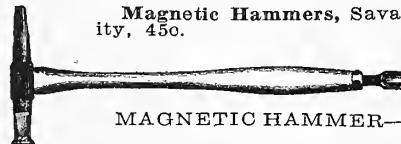
**Super Flat Springs**, to hold the section holders tight together. Price per 100, 90c; per 1,000, \$7.20.



**Bee Staple**

**Magnetic Hammers**, common. Price 25c.

**Magnetic Hammers**, Savage, best quality, 45c.



**MAGNETIC HAMMER—COMMON**

**Paint for Bee Hives.** Ask for price.

**Paint Brushes**, 3-inch, good article. Price, 50c.

#### COATED WIRE NAILS FOR HIVES, ETC.

Prices subject to market changes.

| Size.                                      | Price Per lb. | Per 10 lbs. |
|--|---------------|-------------|
| 1-in., very fine and slim.....             | \$0.35        | \$3.00      |
| 2d, regular, fine, for nailing frames..... | .25           | 2.00        |
| 3d, 1½ in. long, for nailing cases.....    | .25           | 2.00        |
| 4d, 1½ in. long.....                       | .20           | 1.50        |
| 5d, 1½ in. long.....                       | .20           | 1.50        |
| 6d, 1½ in. long.....                       | .20           | 1.50        |
| 7d, 2½ in. long, for nailing hives.....    | .20           | 1.50        |

## BEE SUPPLY DEPARTMENT—Continued

### SPUR WHEEL WIRE IMBEDDER

This imbedder has metal wheel with teeth so arranged that by running along the wire the wire is pressed into the foundation. Price, 30c.

### DAISY FOUNDATION ROLLER

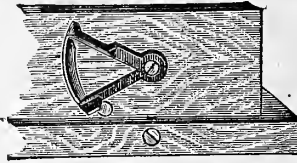
Is also illustrated in above cut. Used to press the foundation to the frame. Price, 20c.



### HIVE SCRAPERS

Each, 30c.

### VAN DEUSEN HIVE CLAMP



These are very convenient for fastening loose bottoms when you want to move hives. They may also be used to hold the cover on, or two bodies together. Price, 70c for 10 pairs, including two screws with each clamp.

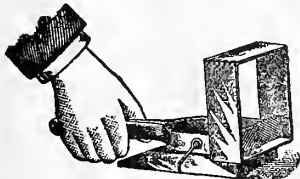
### NICKELED-STEEL HIVE-TOOL



A new spring-steel nickel-plated hive-tool, which is both a scraper and a pry. The end which is turned down at right angles, or the hoe-end, fits nicely up into the palm of the hand when tool is used as a pry or a scraper. Price, 60c.

## FOUNDATION FASTENERS AND SECTION PRESSES

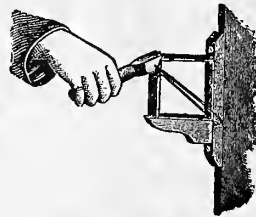
### PARKER'S FOUNDATION FASTENER



Fasten machine to table with screws. Dampen the under side of point of lever with honey or water to prevent its sticking to the foundation. Place section in position with strip of

foundation just under the edge of lever; press lever down on foundation by lifting handle, turn foundation up against end of lever and slide lever off of foundation by lifting on handle and drawing it backward, which fastens the foundation to section. Price, 45c.

### "HIGGINSVILLE" SECTION PRESS



This machine is a marvel in its way for a low-priced Section Press.

All you have to do is to screw it fast to a bench or some upright and it is ready for using. Price, 60c each.

### "HIGGINSVILLE" SECTION PRESS

### DAISY FOUNDATION FASTENER



This is probably the best machine for its price for putting starters into sections. It is easily operated and with a little practice a girl or boy will put starters in from 400 to 500 sections per hour. Complete directions are sent with each machine.

Price, with lamp, \$1.50; without lamp, \$1.20.

### RAUCHFUSS COMBINED SECTION PRESS AND FOUNDATION FASTENER

Daisy Foundation Fastener

Simplicity, efficiency, accuracy and durability are its chief characteristics, and is guaranteed to give satisfaction. Fitted for  $4\frac{1}{4} \times 4\frac{1}{4}$  sections, with lamp all ready to fasten to table or bench. Price, complete with lamp, \$4.00.

### ROOT SECTION PRESS

Price, \$1.80

### ROOT FOUNDATION FASTENER

Complete. Price, 60c

### VAN DEUSEN WAX TUBE FASTENER



It is simply a tin tube about half an inch in diameter, six inches long, tapering and at the apex a small hole. On one side, near the handle, is pricked another small hole, which may be opened or closed with the thumb. When the tube is stood up in a cup of hot wax the air will escape from the upper hole and the wax flow in at the other small hole at the bottom. The thumb is closed over the upper one, the instrument is drawn out of the wax, and the point is then slowly drawn along the edge of the foundation in contact with the top-bar, leaving a fine stream of hot wax to cement it. Price, 30c each.

### CARLIN'S FOUNDATION CUTTER

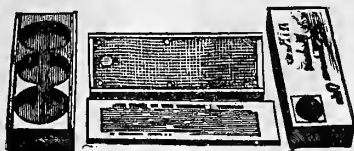
These are very convenient for cutting a great number of pieces, one sheet at a time. The wheel should be kept hot by occasionally immersing in hot water. Price, tin wheel, 25c; steel wheel, 35c.





## BEE SUPPLY DEPARTMENT—Continued

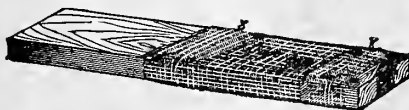
### CAGES FOR QUEENS



**BENTON CAGE**

**Benton Cage.** Price, complete, with candy, 10c each; 10 for 75c. Price, without candy, 8c each; 10 for 65c.

### MILLER'S QUEEN CATCHER AND INTRODUCING CAGE



**MILLER'S QUEEN CATCHER**

Any one who is afraid to catch the queen by the wings can slip this cage right over her, and she will crawl up, and then the plug can be inserted.

It can be used advantageously not only for introducing laying queens, but even virgin queens. Being only ¼ inch thick it can be slipped down between the combs or slid in at the entrance. Price, 15c each; 10 for \$1.10.

### PERFORATED ZINC QUEEN EXCLUDERS OR HONEY BOARDS

These are used to exclude the queen from the upper story. Our zinc is perforated with round corners, size, 17-100 of an inch, the best size and style.

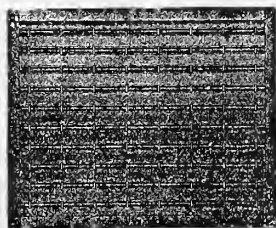
|   | Each   | Per 10 |
|---|--------|--------|
| Zinc, size 12x19½, for 8-frame hives..                        | \$0.55 | \$5.00 |
| Zinc, size 14¾x19½, for 10-frame hives.                       | .67    | 6.30   |
| Wood bound zinc honey boards, nailed, for 8-frame hives.....  | .67    | 6.00   |
| Wood bound zinc honey boards, nailed, for 10-frame hives..... | .80    | 7.30   |

### WOOD AND WIRE HONEY BOARD

This is made just like the wood bound zinc board, except that the wire strips are substituted for the zinc.

Eight-frame wood and wire honey board, 13½x20; each 55c; per 10, \$5.25.

Ten-frame wood and wire honey board. 16x20, each, 60c; per 10, \$6.25.



**WOOD AND WIRE HONEY BOARD**

### BEE SMOKERS

#### DIRECT-DRAFT PERFECT BINGHAM BEE SMOKER

The direct draft assures constant smoke. They are well made. Have wide shields and wire handles to cone.

| Order by Name  | Size of Barrel | Price Each |
|----------------|----------------|------------|
| Conqueror..... | 3 -in.         | \$1.00     |
| Doctor.....    | 3¼-in.         | 1.25       |
| Smoke Engine.. | 4 -in.         | 1.50       |



**Direct-Draft Perfect BINGHAM BeeSmoker**

PATENTED  
1876, 1892 and 1896

#### ROOT SMOKER

Guaranteed to burn any fuel, including wood, corn cobs, peat, old rags, etc.

**Standard.** 3¼ in. diameter. Price, \$1.10.

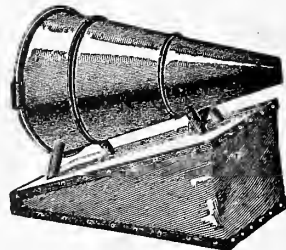
**Jumbo.** 4 inches diameter. Price, \$1.55.

**Junior.** 2½ inches diameter. Price, 75c.



#### CLARK'S SMOKER

This is the most commonly used smoker on the market. Is cold blast. Very satisfactory in a small apiary. Price, 70c.



#### WEST QUEEN-CELL PROTECTOR

These are to prevent bees from gnawing into and tearing down cells given them at certain times of the year. Price, 8c each; 10 for 75c.

**Spiral Cage** to hold the virgin queens after she hatches, till she can be disposed of; each, 15c; 10 for \$1.20.



#### SIMPLICITY BEE FEEDER.

Price, 15c each; per 10, \$1.25.

#### DIVISION BOARD FEEDER



top bar. Price, nailed, 50c each; in flat, 40c.

Has the same outside dimensions as an ordinary division board or brood frame, and can be used in the brood chamber the same way. To feed, all that is necessary is to push back the opening on the

**BEE HATS.** Flexible rim, fit any head. Price, 40c.

## BEE SUPPLY DEPARTMENT—Continued

### PORTER'S BEE ESCAPES



This escape is far superior to all others.

Bee escapes greatly facilitate the removing of honey from hives and supers. The escape is fastened

to a board, after making a suitable hole in same. One escape to a board is sufficient. Complete directions for using the escape are sent with each one. Price, 25c each; \$2.70 per dozen postpaid. Escapes mounted with rims, for 8 or 10-frame hives, complete, 50c; 4 for \$1.80.

### RUBBER GLOVES

They are useful in handling very cross bees, and are a perfect protection for the hands. In ordering be sure to give the number of the size you want, and remember that in rubber you need two sizes larger than you wear in kid.

Ladies' Gauntlets, sizes 6, 7, 8; per pair, \$2.00.

Gent's Gauntlets, sizes 10, 11, 12; per pair, \$2.10; sizes 13, 14, 15; per pair, \$2.50.

### CANVAS GLOVES, 70c per pair.



We have these in two sizes only; large for men and small for ladies. You cannot use a tight-fitting glove while working with bees in warm weather.

### COGGSHALL'S BEE BRUSH (see cut). Price, 30c.



**GERMAN BEE BRUSH.** Made of genuine horse-hair bristles, either black or white. Black, 45c; white, 55c.

**COGGSHALL'S BEE BRUSH**



**BINGHAM HONEY KNIFE.** Price, 90c.  
10-inch Blade.



**NOVICE HONEY KNIFE.** Price, \$1.00.

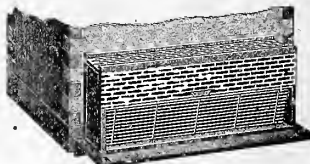
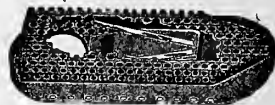
### THE DIXIE BEE BRUSH



A double brush with soft and pliable fibres in a strong wood handle, long enough to reach across an ordinary Langstroth frame. Price, 25c.

### PORTER'S ESCAPE FOR BEE HOUSES

Price, 30c each; \$2.25 per dozen, postpaid.



**WIRE ALLEY TRAP**

### WIRE ALLEY TRAP

This is just like the old style except that it has the wire entrance piece. Furnished in both eight and ten-frame widths. Price, 75c each.

### BEE ENTRANCE GUARDS

**Wire Entrance-guard.** Made with wood top and ends, with wire front, 25c each; 10 for \$2.25.

**Zinc Entrance-guard.** Made of best zinc. 25c each; 10 for \$2.25.



**Wire Entrance—Guard**

### ALLEY'S COMBINED DRONE AND QUEEN TRAP

Directions for use on each trap; price, 70c each.

### BEE VEILS



**GLOBE VEIL**

**Globe Bee Veil.** The veil weighs only 5 ounces. Price, \$1.25, postpaid.

**Bee Veil No. 1.** Cotton tulle, with silk tulle face, 70c each, postpaid.

**No. 2.** Cotton tulle throughout; 60c each, postpaid.

### ALEXANDER BEE-VEIL

This is one of the best and strongest bee-veils that we sell. The portion around the face and head consists of a wire cloth made especially to order for this purpose, with eight meshes to the inch, and offers very little obstruction to the eye. The top consists of muslin gathered at the center and the bottom is of the same material made in the form of a skirt that slips loosely around the shoulders. Price, 90c; postpaid.



**ALEXANDER VEIL**





## BEE SUPPLY DEPARTMENT—Continued

## MANUM'S SWARM CATCHER

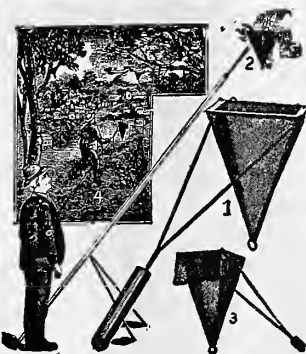
Without a doubt this article is the best of its kind on the market.

Its great feature is that it will stand alone and hold the basket where the bees are lying the thickest, by placing the legs at angles with the main bar (see cut.)

Swarms can be successfully handled 20 feet in the air.

Price, with pole, complete, \$2.00.

Price, without pole, \$1.50.



## No. 5B. NOVICE TWO-FRAME (NON-REVERSIBLE) EXTRACTOR

For Langstroth or Hoffman frames standing on end, or any other frame not over 9½ in. deep or 18¼ long, top-bar 20 in. (wt. 45 lbs.).

It is intended for the use of those who have only a small number of colonies, and who desire a good, well-built, serviceable machine at a moderate cost. While not reversible many think the combs can be handled almost as quickly. Price, \$18.00.



## NOVICE FOUR-FRAME (NON-REVERSIBLE) EXTRACTOR

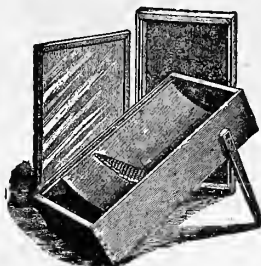
No. 54B. Four-frame Novice for Langstroth or regular Hoffman frames, comb-pockets 9½ in. wide; can 20 in. diameter; weight, 80 lbs., \$25.00.

The machine has ball-bearings, top and bottom, and our latest style of gear with slip-gear lever.

## DOOLITTLE WAX EXTRACTOR

One of the Most Paying Things, Considering First Cost, is a Good Solar Wax Extractor.

There is not "millions in it," but there is many a dollar's worth of wax that can be saved in a season, even in a small apiary, by having a solar wax extractor setting handy where you can drop in little pieces of comb as they accumulate, and you have no idea how much will accumulate, until some day you look into the wax extractor, and behold! there is a beautiful cake of clear, transparent wax in the extractor pan. "A dollar saved is a dollar earned," and a Solar Wax Extractor will earn this dollar for you.



DOOLITTLE WAX EXTRACTOR

Doolittle Solar Extractor, weighs 30 lbs., \$5.70.

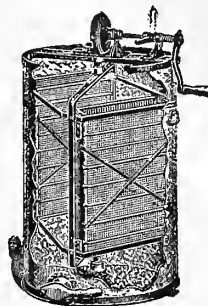
## THE FAMILY SCALE

This is a beautifully finished, accurate instrument for weighing honey or anything else; and it will weigh as close as one ounce without any trouble. Price, \$2.00.

## No. 15. COWAN RAPID REVERSIBLE EXTRACTOR

This for many years has been one of our leaders. While it is not automatic in reversing, yet the combs can be turned the other side to by putting one hand down into the can of the machine, catching one basket and then the other, drawing them to the other side while the reel revolves slowly.

Holds two frames; weighs 70 lbs. Price, \$21.00.



TWO-FRAME REVERSIBLE COWAN

## THE ROOT AUTOMATIC REVERSIBLE EXTRACTOR

This we consider by all odds to be our best machine. It has all the latest attachments, and is capable of heavy work. The automatic reversing feature has stood the test of hard usage for a number of years in some of the largest apiaries in the world. It is simple and positive in its action, the entire mechanism being placed on top of the reel and out of the honey.



ROOT AUTOMATIC EXTRACTOR

No. 25B. Four-frame Root Automatic. 29 ins. in diameter (weight 180 lbs.), \$45.00.

## DADANT'S UNCAPPING CAN

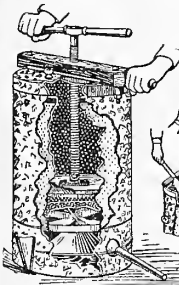
This is indispensable to the Apiarist Who Has Much Honey to Extract.

The uncapping is done over it and the cappings fall on the screen below and are drained. It not only saves a great deal of honey, but also the white wax cappings, and it keeps things neat and clean. This machine is also invaluable for making Sugar Syrup by the percolator plan for feeding. Spread over the wire cloth a thickness of muslin; over this distribute evenly a layer of cotton batting about an inch thick, and over the whole another thickness of muslin. Now pour in sugar and water in equal proportions by measure, and the next morning you can draw off



DADANT'S UNCAPPING CAN

syrup from the lower can just right for feeding. Weighs 60 lbs. Price, \$13.00.



GERMAN STEAM WAX PRESS

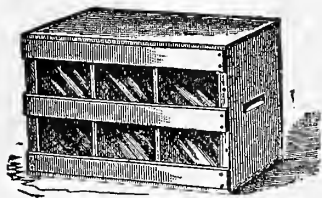
## ROOT GERMAN STEAM WAX PRESS AND UNCAPPING CAN

Weighs 75 lbs. Price, \$16.00.

**BEEWAX.** We want all beeswax we can get, and will pay the highest market prices in cash. If you or your neighbors have any for sale, let us know and we will buy it. Wax in medium sized cakes preferred.

## BEE SUPPLY DEPARTMENT—Continued

### CARTONS FOR COMB HONEY



**DOUBLE TIER SHIPPING CASE**

We sell two forms of cartons—one known as the folding, in which the section is completely inclosed; the other is the Danzenbaker with open sides. These latter are cheaper, and much handier to put the sections in, and can be used in ordinary shipping-cases, while the folding carton requires a special case. To hold the Danzenbaker in place it is advisable to slip a rubber band over it. These we furnish when ordered. It necessarily has no printing at the sides, but has on all the other panels.

Both styles of cartons are furnished for our regular sizes of sections— $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$  and  $1\frac{1}{2}$ ; also  $4 \times 5 \times 1\frac{1}{2}$ . Other sizes are furnished in large quantity on special order.

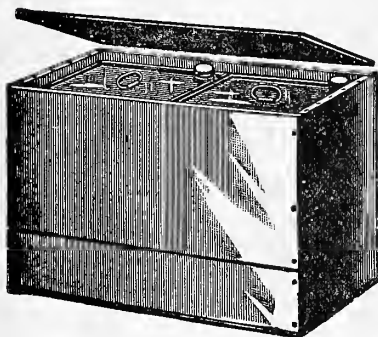
We would advise any honey-producer who sells any honey locally to purchase a quantity of the folding cartons. They are very handy for retailing, because the customer can take the honey home without danger; and moreover they tend to whet his appetite by a recital of the merits of honey as a food.



### PRICE LIST OF CARTONS

Danzenbaker cartons, printed two colors, without name and address, \$1.20 per 100; 500, \$5.40; 1,000, \$10.00. Weight of 100, 4 pounds.

Folding cartons, printed two colors, no name or address, 100, \$1.30; 500, \$6.00; 1,000, \$11.75. State for what size sections you want them, as they are made for sections  $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$  and  $4 \times 5 \times 1\frac{1}{2}$ .



On account of the unsettled condition of the metal market, the following prices on cans and pails are made subject to change according to the market values at the time your order is received.

### SQUARE HONEY CANS

Holds 60 lbs.—5 gallons, with screw caps.

|                          |         |
|--------------------------|---------|
| One pair boxed, complete | \$ 1.55 |
| Ten pair boxed, complete | 15.00   |
| Each, not boxed          | .65     |
| Per ten, not boxed       | 6.00    |

Prices on cans and pails fluctuate. When wanting quantity ask for prices.

**COMB BUCKETS.** For five L frames, \$1.50.



### ROUND TAPERING HONEY PAILS

Can be shipped and stored nested.

No. 3. Holds 4 lbs. honey; per doz. \$1.35; per 100, \$9.00.

No. 5. Holds 7 lbs. honey; per doz. \$1.50; per 100, \$9.80.

No. 10. Holds 14 lbs. honey; per doz. \$2.40; per 100, \$18.00.

1 qt. Friction Top Tin Pails, per doz. \$1.10; per 100, \$7.00.

2 qt. Friction Top Tin Pails, per doz. \$1.70; per 100, \$12.50.

1 gal. Friction Top Tin Pails, per doz. \$2.00; per 100, \$15.25.

### SHIPPING CASES FOR COMB HONEY

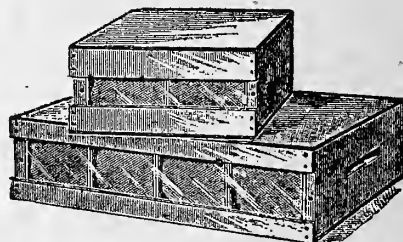
Comb honey put up in a nice, clean, attractive crate will bring more than when packed in an unattractive shape. Most of our crates are made of snow-white basswood, except the bottoms and back, which are not visible when set on a counter. They are simply beautiful to look at, and when filled with nice comb honey they are doubly beautiful.

The 24-lb. double-tier case is almost universally used in Colorado, as it is the one which finds most favor with Western dealers in honey. It was adopted as the standard package by the members of the Colorado State Bee Keepers' Association several years ago.

It certainly is the most attractive package, as one-fourth of all the honey contained is exposed to view. One sheet of paper should be placed in the bottom of the case, and the other over the top inside.

**Price List of Shipping Cases with Glass, Nails and Paper, Complete. Original Crates are 50 cases each.**

|  | Each   | Per 10  | Per 50  | Per 100 |
|--|--------|---------|---------|---------|
| 24-lb. Double Tier, $2\frac{1}{2}$ -in. glass                          | \$0.30 | \$ 2.75 | \$13.00 | \$25.25 |
| 24-lb. Single Tier, $2\frac{1}{2}$ -in. glass                          | .30    | 2.60    | 12.50   | 24.00   |
| 24-lb. Single Tier, wood slide instead of glass                        | .25    | 2.35    | 11.00   | 21.60   |
| 24-lb. Single Tier, $2\frac{1}{2}$ -in. glass for Dazzenbaker sections | .30    | 2.16    | 12.00   | 23.75   |
| 12-lb. Single Tier, 2-in. glass for Regular sections                   | .25    | 2.10    | 9.90    | 19.25   |



**SINGLE TIER SHIPPING CASE**



## POULTRY DEPARTMENT

### THOROUGHBRED POULTRY AND EGGS FOR HATCHING



BROWN LEGHORNS

We secure our eggs from reliable and up-to-date breeders, and we have every reason to believe that they will run about 85 % fertile, but on account of the amount of handling which they are bound to receive in our hands and in transit, we have found it necessary to withdraw any guarantee whatever. We regret very much that we find it necessary to do this, however, we have decided it to be best for all parties concerned.

Turkeys and Ducks do not usually start laying in this locality much before March 15th, and as the first eggs are never the best, we think the first of April is plenty early.

Orders for one and two settings are packed in Anderson egg boxes. Each egg has a compartment, and is carefully protected by layers of corrugated paper. Larger lots are packed in baskets.

Eggs should go by express. We send a notice by mail the same day that the express shipment is made, advising customers of same. No goods sent C. O. D.

Are you planning to add new blood to your flock; or are you just starting out? We can supply just what you want, birds for utility or show purposes. We handle the stock of all the good breeders in and around Denver and can supply you quickly with any breed.

We do not keep these fowls on hand; thus it is impossible to fill orders as promptly as we desire. Nearly all of our breeders are located in the country, therefore, when we receive your order it is necessary to write a letter and it is usually a day before the breeder receives it, and another day before he can deliver the birds to us. Thus, it can easily be seen that it takes three days before we can fill your order.

In very cold weather it is sometimes necessary to hold the birds for a day or so until the weather moderates, as it is dangerous to move valuable birds of the large comb breeds—such as Minorcas and Leghorns—in severe weather, on account of the danger of freezing their combs.

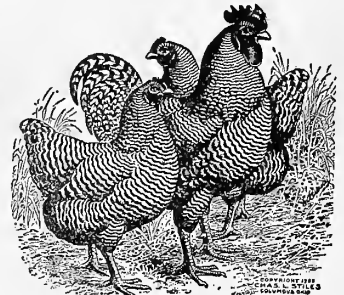
We are particularly careful about shipping birds. Our shipping coops are light, but very substantially made and have a slatted top, allowing plenty of air, and taking a cheaper express rate than the canvas coops. Provision is made for feed and water.

During the breeding season, or from February 1st to May 1st, we try to have on hand a display of good cockerels at our store, but outside of this period it is impossible to do this, as the birds which are kept confined are bound to become weakened and sickly in time. The price of these birds depends much on the merit of each particular specimen; therefore, it is difficult to give exact prices in the catalogue.

In writing for birds be sure to state whether you wish utility or show birds.

We are always glad to make quotations, so do not hesitate to inquire.

We advertise all kinds of eggs for hatching, but please remember that we do not guarantee them.



BARRED PLYMOUTH ROCKS

|                             | Males              | Trio               | Doz. | Eggs<br>Per 1<br>Setting | Eggs<br>Per 2<br>Settings |
|-----------------------------|--------------------|--------------------|------|--------------------------|---------------------------|
| Barred Plymouth Rocks       | \$ 3.25 to \$12.00 | \$ 6.00 to \$15.00 |      | \$3.00                   | \$4.50                    |
| White Plymouth Rocks        | 4.25 to 12.00      | 6.00 to 15.00      |      | 3.00                     | 4.50                      |
| White Wyandottes            | 4.25 to 10.00      | 6.00 to 12.00      |      | 3.00                     | 4.50                      |
| Black Langshans             | 5.25 to 15.00      | 8.00 to 15.00      |      | 3.00                     | 4.50                      |
| Light Brahmas               | 4.25 to 10.00      | 7.00 to 12.00      |      | 3.00                     | 4.50                      |
| Rhode Island Reds           | 3.25 to 10.00      | 6.00 to 12.00      |      | 3.00                     | 4.50                      |
| Brown Leghorns, Single Comb | 3.50 to 8.00       | 6.00 to 10.00      |      | 2.50                     | 4.00                      |
| Brown Leghorns, Rose Comb   | 3.50 to 8.00       | 7.00 to 10.00      |      | 2.50                     | 4.00                      |
| White Leghorns, Single Comb | 3.25 to 6.00       | 6.00 to 10.00      |      | 2.50                     | 4.00                      |
| White Leghorns, Rose Comb   | 3.75 to 8.00       | 7.00 to 10.00      |      | 2.50                     | 4.00                      |
| Buff Leghorns, Single Comb  | 4.25 to 10.00      | 8.00 to 12.00      |      | 3.00                     | 4.50                      |
| Black Leghorns, Single Comb | 5.00 to 10.00      | 8.00 to 12.00      |      | 3.00                     | 4.50                      |
| Buff Orpingtons             | 4.00 to 10.00      | 8.00 to 12.00      |      | 3.00                     | 4.50                      |
| White Orpingtons            | 5.00 to 10.00      | 12.00 to 25.00     |      | 4.00                     | 6.50                      |
| Black Minorcas, Single Comb | 4.00 to 8.00       | 8.00 to 12.00      |      | 3.00                     | 4.50                      |
| Black Minorcas, Rose Comb   | 5.00 to 10.00      | 8.00 to 12.00      |      | 3.00                     | 4.50                      |
| Houdans                     | 4.00 to 10.00      | 8.00 to 12.00      |      | 3.00                     | 4.50                      |
| Guineas, Pearl              | 2.00 to 3.00       | 4.00 to 6.00       |      | 2.00                     | 3.25                      |
| Turkeys, Bronze             | 7.00 to 12.00      | 15.00 to 20.00     |      | 3.00                     | 4.50                      |
| Turkeys, White Holland      | 7.00 to 12.00      | 15.00 to 20.00     |      | 3.50                     | 6.00                      |
| Ducks, White Pekin          | 2.75 to 5.00       | 8.00 to 12.00      |      | 2.50                     | 4.25                      |
| Ducks, Indian Runner        | 3.00 to 5.00       | 8.00 to 12.00      |      | 2.50                     | 4.25                      |
| Geese, Toulouse             | 5.00 to 7.00       | 15.00 to 20.00     |      | 50c each                 |                           |
| Pigeons, Homer, per pair    | 1.50 to 2.00       |                    |      |                          |                           |

If you do not have time to get our quotations, remit the amount which you wish to pay for your birds and we will ship stock fully worth the price.

## POULTRY DEPARTMENT—Continued

WHEN POULTRY SUPPLIES ARE WANTED BY MAIL ADD POSTAGE

### BUCKEYE INCUBATORS

After experimenting for several years with the different makes of incubators, we have finally come to the conclusion that the best incubator for this Western territory is the

#### BUCKEYE

The "Buckeye" is unquestionably the best incubator made. Our customers have proven that, by comparative tests with all other brands. They never fail to hatch more chicks and better chicks.

#### Every "Buckeye" We Sell is GUARANTEED to Hatch More Chicks and Better Chicks

The old style hot-air machine is now a thing of the past, as all poultry raisers are coming to realize that the hot-water machine is the only reliable hatcher made. The "Buckeye" is made of the best materials to be had and is recommended by all the Agricultural Colleges and Experimental Stations.

Don't fool yourself by thinking that a 50 or 60 per cent hatch is all you can expect from an incubator, because the "Buckeye" will hatch 100 per cent of the fertile eggs.

The entire Buckeye system is so simple that any boy or girl who can read intelligently can operate a Buckeye Incubator just as satisfactorily as an experienced operator.

We positively guarantee that no previous experience is necessary to operate a Buckeye.

You simply follow instructions and get a chick from every hatchable egg that you put in the machine.

There is really so little for the operator of a Buckeye to do, that it can be told in a few words.

It's simply this:

You keep the lamp burning and turn the eggs twice a day.

That's positively all there is to do—and even the turning of the eggs is reduced to an operation that takes just about one minute for each tray full.

#### A REMARKABLE INCUBATOR AT A REMARKABLE PRICE

The case is made of California redwood, and beautifully finished like a piece of fine furniture. It has perfectly insulated double top, and the walls are so constructed that the necessary temperature can easily be maintained in any location—even if it be freezing or up to 100 degrees.

A Standard Buckeye Metal Thermostat regulates the temperature to a fraction of a degree. With this device it is only necessary to regulate the temperature when the hatch is started—then you forget it—because the regulator stays where you put it and the temperature of the egg chamber cannot change.

The tank is an improved design that absolutely insures a uniform temperature throughout the egg chamber. This means that the temperature of each and every egg will be exactly right, and if there's a chick in the egg—you'll get it.

The tank is equipped with an extra large boiler of new design, that insures the necessary heat, in any temperature, with an extremely small consumption of fuel.

Both tank and boiler are made of a heavy, patented, rust-resisting metal that will last for years.

The complete lamp consists of a seamless, galvanized-steel bowl, a wide base "Miller" burner (the best burner made), and a one-piece galvanized-steel chimney. This lamp outfit is the best that money can buy—it's a lamp that won't smoke or get out of order. The lamp is self-adjusting, too! It sits on a portable support that always brings it to its correct position.

A Standard Buckeye Thermometer is included with each incubator—also a standard thermometer-holder. With this equipment the correct temperature is always shown and the thermometer is always in its proper position.

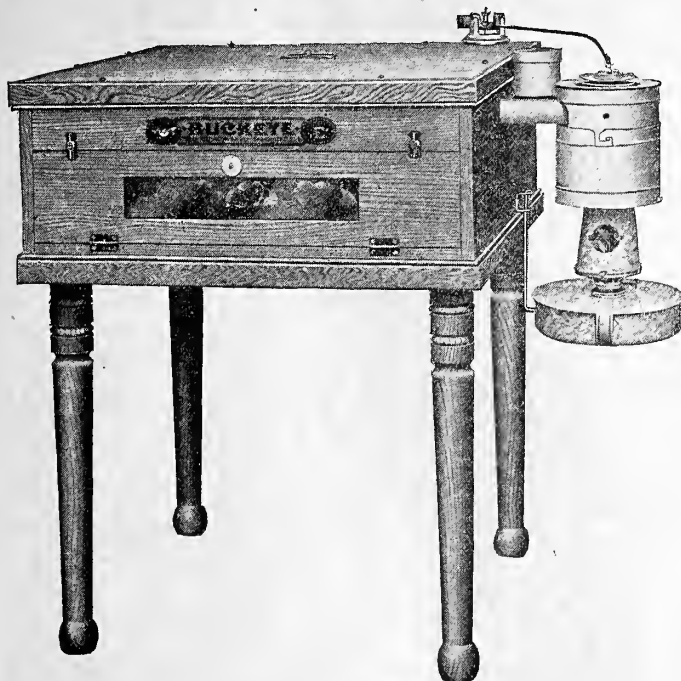
(Every Buckeye Standard Thermometer is guaranteed correct within one-fifth of one degree.)

The Improved Egg Tray is built to stay and will wear like iron.

A Standard Buckeye Egg Tester goes with every incubator. This enables the operator to follow the development of the chicks while they are hatching—also to remove the unfertile and unhatchable eggs.



## A GENUINE BUCKEYE



### No. 16 Style "E"

Capacity 110 Eggs. Price, \$20.00

Each Buckeye Incubator has a hot-water tank suspended above the eggs. This tank is attached to a boiler on the outside of the case, in which the water is heated by the lamp. Two tubes connect the tank and boiler, one of which carries the heated water from the boiler to the tank and the other carries the water back to the boiler to be heated again.

The arrangement of this heating system is such that the hot water is constantly circulating through the tank, thereby maintaining an absolutely uniform temperature at every point in the egg tray.

That temperature must be kept at approximately 103 degrees all the time.

You won't believe how easy it is until you see it done—the Buckeye way.

The Patented Thermostat we place in every Buckeye Incubator will automatically regulate the temperature to a degree.

So, no matter what happens, you simply can't change the temperature in the egg chamber, unless you put the lamp out.

Even under those circumstances it would take a long time for the eggs to cool, as the hot water will stay hot for hours.

In case the lamp is accidentally put out or forgotten, no damage could possibly result for several hours.

Other sizes carried in stock in Denver are the following:

No. 14, Capacity 60 eggs, price, \$12.00  
No. 17, Capacity 200 eggs, price, 26.50

## BUCKEYE "STANDARD" INCUBATORS

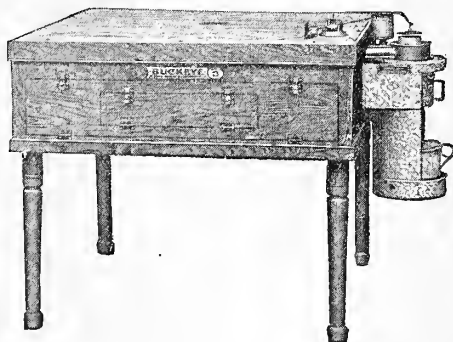
### Fool-proof and Fire-proof

These Buckeyes are absolutely the last word in incubator construction. Made with double walls throughout—California redwood on the outside and seasoned poplar inside, with  $\frac{1}{4}$  inch of fiber insulation between—they are impervious to changes in outside temperature.

The doors are made of two thicknesses of one-inch lumber and matched to the case by expert cabinet makers to insure a perfect fit. The center of each door is equipped with a small window protected by two panes of glass, with a dead air space between, and further protected by a wooden door on the outside.

This construction provides the desirable dark egg chamber, and at the same time permits an easy reading of the thermometer, which is placed directly inside the door.

No. 1, Capacity 110 eggs. Price.....\$26.50  
No. 2, Capacity 175 eggs. Price..... 32.00  
No. 3, Capacity 250 eggs. Price..... 43.00



BUCKEYE STANDARD INCUBATOR

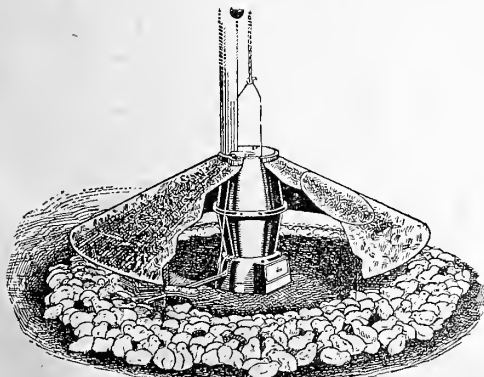
## THE STANDARD COLONY BROODER

### The Most Remarkable Coal-Burning Brooder Ever Invented

Self-feeding—self-regulating—simple—safe—everlasting. Guaranteed operating cost less than 6 cents per day. The Standard is positively the easiest to operate and most economical coal-burning brooder made. One filling of coal will last more than 24 hours. The special construction of the Standard will not permit the fire to go out as long as there is a pound of coal in the stove. Made entirely of cast-iron and is built to last a lifetime

No. 18 Broods up to 500 chicks. Price.....\$19.50

Shipping weight, 75 lbs.



THE STANDARD BROODER

## POULTRY DEPARTMENT—Continued

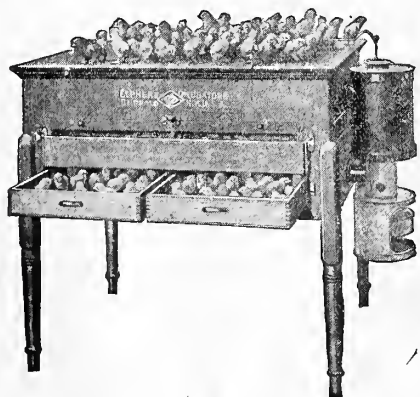
We are Authorized Agents for

# GENUINE CYPHERS COMPANY INCUBATORS

Patented

Made in Three Styles

For the season of 1918 we offer our customers the Cyphers Incubator Company's line of incubators. These three styles of high-class, guaranteed hatching machines, represent all that is efficient, convenient and reliable in incubator construction. In buying a Cyphers Company Incubator you take no chance.



STANDARD  
CYPHERS INCUBATOR

### STANDARD CYPHERS INCUBATOR

These are machines that for fifteen years and more have been recognized as the "Standard hatchers of the world." Tens upon tens of thousands of them have been sold and are in successful use in every civilized country on the globe. They are used by more Government Experiment Stations, on more large, practical poultry plants, on more successful duck and egg farms, and by a larger number of foremost poultry breeders than all other makes combined. They are the last word to date in incubator building, not a penny being spared anywhere in their construction to make sure of their doing satisfactory work in all climes, under widely different conditions, in the hands of all sorts of people. They are built to hatch and to last. With ordinary care they should last an ordinary lifetime. Every Standard Cyphers Incubator is guaranteed by the manufacturers to do first-class work in the hands of every purchaser who will give it a fair trial.

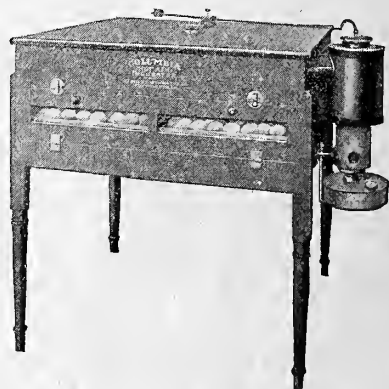
No. 2. 244 Egg, complete.....\$37.00

### COLUMBIA HOT-AIR INCUBATORS

(Fully Guaranteed)

Are built to meet the wide-spread demand for large-capacity, lamp-heated machines that can be sold at surprisingly low prices and yet be guaranteed to do high-class work. Have wooden cases, attractively finished in dark green, with brass trimmings and double walls. Seamless-bottom lamp bowls, best quality brass burners, zinc and steel Standard Cyphers toggle-joint thermostat, and same regulating equipment as used on highest priced machines. Fume-proof, forced draft heater, asbestos covered and metal banded. Automatic in ventilation and embodies diffusive principle. Roomy chick nursery under egg trays.

140 Egg, complete.....\$18.00



COLUMBIA  
HOT-AIR INCUBATOR

### SUPERIOR HOT-WATER INCUBATORS

(Fully Guaranteed)

These machines are exactly what the name says. They are heated by hot water, instead of hot air, and are "superior" in every detail. The water boiler and tank (tubular) are of heavy weight copper. Lamp has seamless bowl; burner is best on market. Incubator case is of wood, attractively finished in golden brown, with brass trimmings (hinges, buttons, etc.) and has double walls, with air space insulation. Are equipped with Standard Cyphers zinc and steel toggle-joint thermostat and knife-edge regulator. Have forced water circulation and are automatic in ventilation. Roomy chick nurseries. Are built in two sizes:

60-65 Egg, complete.....\$13.00



SUPERIOR  
HOT-WATER INCUBATOR



## POULTRY DEPARTMENT—Continued

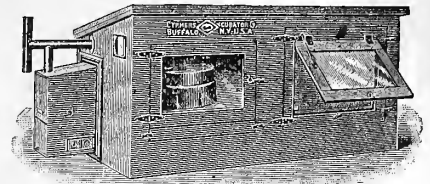
### Style B Outdoor Brooder

The Style B Outdoor Brooder has all the favorable features found in the Style A, and in addition has a large exercising apartment, thus securing twice the floor space.

All Cyphers Brooders, Styles A, B and C, are self-regulating, self-ventilating and vermin-proof. They are usable also as colony coops for the growing chicks. They are easily and quickly converted into colony roosting coops by simply taking out the hover, which is made removable for that purpose. This double use of the Cyphers Brooder means a considerable saving of money. It makes a safe and comfortable enclosure for the young chicks at night, and saves the buying of a coop for them. These outdoor brooders, on account of their fire-proof construction, can be used indoors equally well.

Dimensions: Floor space, 32x62 inches, 32 inches in front and 24 inches in rear. Capacity (normal), one hundred newly-hatched chicks; can accommodate one hundred and fifty chicks.

Price of Cyphers Style B Outdoor Brooder, complete with Standard Cyphers Regulator, Tested Brooder Thermometer, and bearing "Inspected Brooder" label, safely crated, \$19.50. Weight 205 lbs.



**STYLE B OUTDOOR BROODER**

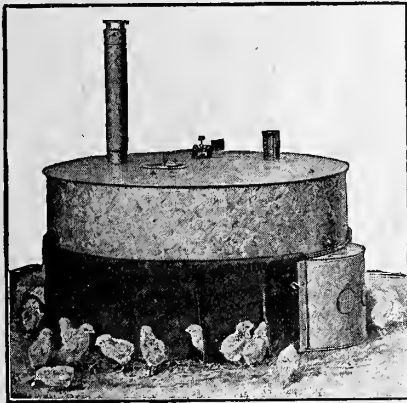
### Style C Outdoor Brooder

This self-ventilating and self-regulating three-apartment outdoor colony brooder has all the good points of the two brooders hereinbefore described, and one more—the hover apartment is double walled with a dead-air space between the walls, and the hover apartment window is fitted with double glass with an air space between. This three-apartment brooder is double insulated, and so is doubly valuable during the winter months and in early spring. We recommend the use of this brooder for use in cold latitudes and very early in season for extra valuable chicks.

The Cyphers Style C Brooder is equipped with the Cyphers Fire-Proof Heater and Standard Adaptable Hover, and therefore is insurable, each brooder bearing the "Inspected Brooder" label of the Underwriters' Laboratories.

Dimensions: Floor space, 32x62 inches; height, 32 inches in front, 24 inches at rear. Capacity (normal), one hundred newly-hatched chicks; can accommodate one hundred and fifty chicks. Shipped knock down at low freight rates.

Price of Cyphers Style C Outdoor Brooder, \$21.00. Weight 220 lbs.



### Cyphers Portable Hover

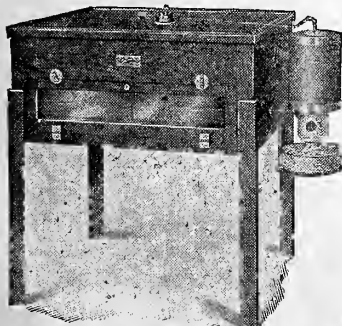
The Cyphers Portable Hover is the only self-regulating and self-ventilating Portable Brooding Hover thus far invented, and we guarantee it to be the best brooding device of the kind on the market. As it is equipped with the same high-grade thermostat as the Cyphers Incubators and the Cyphers Adaptable Hover, it maintains a steady and uniform heat. It is positively and infallibly automatic in ventilation, preventing the trapping of "dead" air or poisonous gases underneath the curtain. A continuous supply of fresh, warmed air is automatically forced beneath the hover.

The Portable Hover, as its name indicates, can be picked up at any time, all complete, and moved about without hindering its operation. Very convenient for cleaning and moving. Rated capacity, seventy-five newly-hatched chicks, or fifty chicks that are ten days to six weeks old.

Price of Cyphers Portable Hover, \$10.00.

## ESSEX-MODEL "MIDDLE-PRICE" INCUBATORS

### MISSION FINISH—LATEST STYLE MADE



**MIDDLE-PRICE INCUBATOR**  
Complete. No extras to buy.

This is a line of Middle-Price Incubators for those earnest poultry keepers who want a reliable hatcher, but not expensive. In the Middle-Price Incubators the heating and ventilating principle of the Standard Model Incubator is in a great part retained. The double cases are of pine with ample packing or insulating material between them; nicely finished in Mission Style and in every way are a dependable hatcher. Compare these prices with those of any other make of HIGH-GRADE MACHINES that holds as many eggs, and you will find that these cost less by one-half. They are positively the greatest values offered in Incubators of these sizes.

### Essex Model "Middle-Price" Incubators

#### Prices and Sizes

No. A. Holds 70 eggs; shipping weight 50 lbs. Price.....\$ 9.50  
No. C. Holds 200 eggs; shipping weight 100 lbs. Price..... 15.75

Call at our store and examine these machines. See how easily they work.

## POULTRY DEPARTMENT—Continued

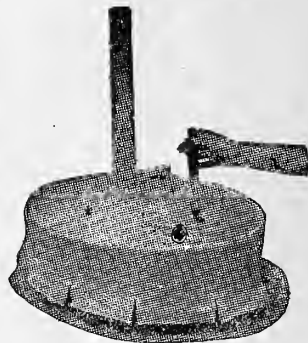
### Essex-Model Colony Brooder—Style A

The Essex-Model Brooders are known wherever poultry is raised by reason of their splendid combination of light, heat, ventilation and floor space. The absence of oil fumes is secured by air-tight heating parts, and in all of the Essex-Model Brooders the hover can be readily raised for cleaning purposes. The Essex-Model Brooders are in a class by themselves, as the most economical, most practical and highest quality Brooder made.

Model A Brooder, price, \$11.00. Contains two apartments and is 28¼x47½ inches in size. It has a supplementary cover or diaphragm that may be used for indoor purposes or outdoors in fine weather when the roof is raised, thereby affording superior ventilation. Shipping weight 95 lbs.

### International Sanitary Hover

This hover can be picked up and carried around with ease and used anywhere. It gives equally good results in a hen house, barn, cow stall, piano or dry goods box. It is circular in shape, is made of metal throughout, and fire-proof. The hover sets on floor just as a mother hen does. The lamp can be lifted out through the top and the operator does not need to kneel in the dust. There is no possibility of gases and fumes from the lamp getting into the air breathed by the chicks. The thermometer can be lifted out, looked at and dropped back without moving the hover (see illustration). During the winter months this hover can be used for sprouting grain for green feed. It will hold 12 quarts of oats which, when sprouted, will yield in 8 days enough green food to feed 25 to 50 laying hens for 3 days. Price, \$8.50.



### Essex-Model Portable Hover

An especially attractive and practical brooding outfit for those who wish to build their own brooders or for attaching to a small colony house or coop, or for use in a brooder-house. It may be easily raised for cleaning purposes or to examine the chicks beneath it without detaching it from the brooder.

Price, complete, \$6.50. Shipping weight, 25 lbs.

### Sanitary Brood Coop

It is made of galvanized iron and is collapsible. No bugs or insects of any kind can live in it. It has ventilated top and end. It has three doors, one wire screen, one slatted to allow the little chicks to pass in and out, and one storm door to close in case of rain. Size about 18 inches high, 18 inches wide and 24 inches long. It is hooked and grooved together and does not need any bolt to fasten together. Price, \$1.75.

### Oake's Hydro-Safety Lamp

This lamp has been on the market for several years; is well liked and in common use. The Oakes' Hydro-Safety Lamp is made for incubator and brooder use exclusively, and its construction in every part is such as to combine absolute safety with economy of oil, a constant even heat and a great convenience in use.

#### PRICES

|         |  |        |
|---------|--|--------|
| No. 1B. | Tin oil fount, galvanized iron chimney | \$1.25 |
| No. 2B. | Tin oil fount, galvanized iron chimney | 1.50   |
| No. 1A. | Brass oil fount, blue steel chimney    | 1.50   |
| No. 2A. | Brass oil fount, blue steel chimney    | 2.00   |
| No. 3A. | Brass oil fount, blue steel chimney    | 2.50   |



Oakes' Hydro-Safety Lamp

### Incubator and Brooder Lamps and Parts

|   |                        |        |
|---|------------------------|--------|
| Essex-Model, small size, for Nos. 0, 1, A and B Incubators.   | Price, without chimney | \$0.80 |
| Essex-Model, large size, for Nos. 2, 3 and C Incubators.  | Price, without chimney | 1.00   |
| Essex-Model Brooder Lamp for Portable Hover and 1911 Brooders.  | Price, with chimney    | 1.25   |
| Essex-Model Lamp, complete for Portable Hover and Model B Brooder.  | Price                  | 1.00   |
| Essex-Model Chimneys for all size Brooders.   | Price, each            | .25    |
| Cyphers Incubator lamp bowls for No. 0 and No. 1 Incubators, 75c each; for No. 2 and No. 3 Incubators, each |                        | 1.00   |
| Barteldes' Incubator lamp bowls for No. 0, 35c; No. 1 Incubators, 50c; for No. 2 and No. 3 Incubators, each |                        | .60    |
| Extra lamp burners for No. 0, 25c; for Nos. 1 and 2, 35c; for No. 3   |                        | .50    |
| Wicks for Incubator or Brooder lamps, 3 for   |                        | .10    |

### Caponizing Instruments



They are made by expert surgical instrument manufacturers and are first-class in every respect. With each set of instruments we send a booklet containing full directions for using the instruments and caring for the capons. Book alone is 10c.

#### Philadelphia Caponizing Sets

Complete set, in plain pasteboard box, postpaid, \$2.75.

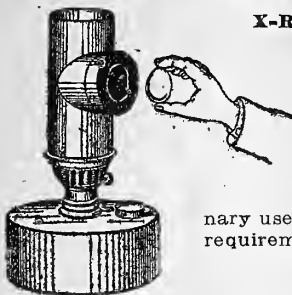
Complete set, velvet case, postpaid, \$3.00.

Farmer's Caponizing Set in velvet case, postpaid, \$3.25.



## POULTRY DEPARTMENT—Continued

### Egg Testers



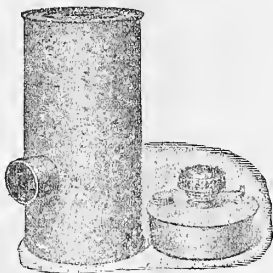
X-RAY EGG TESTER

#### X-RAY EGG TESTER

This is one of the best and cheapest small sized egg testers on the market. It will fit any ordinary house lamp, and will show you just how the eggs are progressing. For the ordinary user this egg tester meets all requirements. Price, 30c.

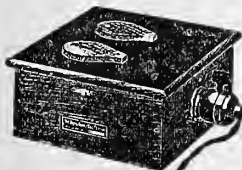
#### CYPHERS PRACTICAL EGG TESTER

This standard tester embodies the best ideas to date. It is 15 inches high and 7½ inches in diameter. Is made of galvanized iron and equipped with a suitable reflector. Any ordinary glass chimney such as is used on a house lamp, will fit it. With proper care this tester will last a life time.



Complete, including lamp and reflector, \$2.00.

#### THE DAVIS RAPID EGG TESTER

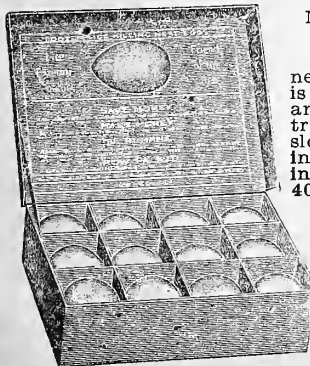


DAVIS RAPID EGG TESTER

Consists of a hard wood, handsomely finished box, 6½x6x3 inches, lined with asbestos and covered with black felt cloth. It is operated by placing an ordinary light globe within the tester and attaching the cord on the tester to the socket. The eggs are placed within the beveled-edge slots on top of the tester and the light shows whether they are good or bad. Can be used in broad daylight with perfect results. Price, with 6-ft. extension cord, \$2.50.

#### ESSEX-MODEL "READ-EASY" HYGROMETER

It enables the operator to decide just how much moisture is in the machine when the temperature is at or near the incubating point. It is very simple and is arranged to read as easy as a thermometer. Price, each, \$1.25.



#### BARTEDES' MEDICATED NEST EGG

Lice destroyer and nest egg combined. It is a sure death to all lice and mites affecting poultry. When in use it slowly wastes away, giving off fumes fatal to all insect vermin. 5c each; 40c per dozen.

#### LIME NEST EGGS

These nest eggs are the best imitation of hen eggs and are unbreakable. Each, 5c; per dozen, 20c.

### [HIGH GRADE TESTED THERMOMETERS



#### BARTEDES' INCUBATOR THERMOMETER No. 5774

An extra good Incubator Thermometer, with round corners, tube set at an angle, 75c.

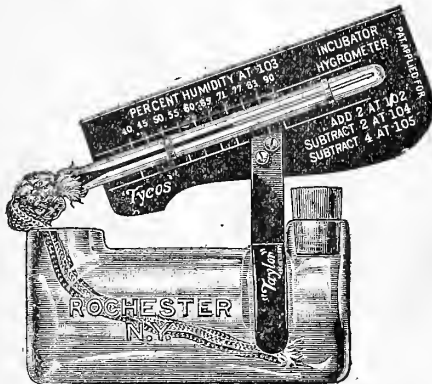
No. 5782. Certified Thermometer with scale also etched on the glass tube, with certificate, \$1.00.

No. 5790. Brooder Thermometer with magnifying lens front, 75c.

No. 5794. Brooder Thermometer, flat, 35c.

No. 5792. Special Thermometer for Cypher's Brooders, 60c.

#### TYCOS HYGROMETER



TYCOS HYGROMETER

The use of an incubator hygrometer effectively lessens the percentage of chicks dying in the shell, due very largely to improper moisture conditions. The illustration shows the correct position of the instrument in use taking the place of one egg in the egg tray, thus showing the conditions actually surrounding the eggs. Price, \$1.50, by mail, \$1.65. Extra wicks for same, each, 10c; per doz. \$1.00, postpaid.

#### COMBINATION THERMOMETER AND HYGROMETER

Saves space in the incubator by mounting the thermometer and the hygrometer on one stand. Price, each, \$1.75.

### Nest Eggs

#### PORCELAIN NEST EGGS

The "Opal" brand are the best made. They are clean cut and uniform. Worth double the common ones. With these there is no danger of getting stale eggs mixed with the fresh ones, nor the hens acquiring the habit of egg eating. 3 for 10c; 6 for 15c; 12 for 25c. We can supply in gross lots at special prices.



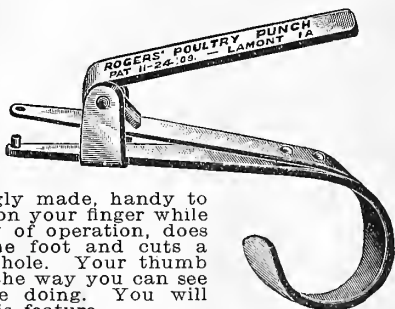
#### MILLET SEED

Let your fowls "work for their living" by scratching in litter for millet seed. It is a good food for the growing chicks. Price, 5 lbs. for 25c; 25 lbs. for \$1.00.

## POULTRY DEPARTMENT—Continued

### Poultry Markers

#### ROGERS' POULTRY PUNCH



It is strongly made, handy to carry, hangs on your finger while using it, easy of operation, does not bruise the foot and cuts a clean, round hole. Your thumb being out of the way you can see what you are doing. You will appreciate this feature.

Plain white satin finish, 35c each.

#### THE "PHILADELPHIA"

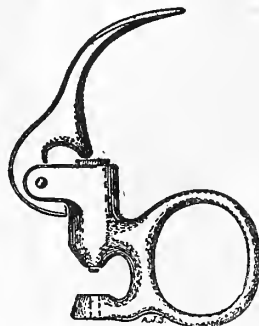
This marker is made in two sizes, one for chicks and for adult fowls. The size of the holes punched are shown by the black dots printed at one side of the marker. The size made for adult fowls is too large for proper use on chicks newly hatched. Price, 25c, postpaid.



The  
"Philadelphia"

#### THE "ACME"

The spring lever arrangement enables one to use this punch with perfect ease, holding the chick in one hand and working punch with other. It is light and very durable. Price, 25c, postpaid.

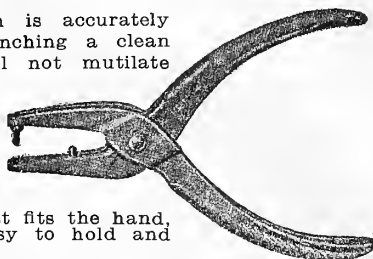


THE "ACME"

#### THE MODEL TOE MARKER

This punch is accurately fitted for punching a clean hole and will not mutilate the web as many other punches do. It is nickel plated and makes an attractive tool and is one which just fits the hand, making it easy to hold and operate.

Price, 60c, postpaid.



#### PETTEY'S POCKET POULTRY PUNCH



This is a handy little pocket size punch, easy to use and is well made. It is easily worth the money. Price, 25c, postpaid.

### Leg Bands

#### CLIMAX OR "STAY-ON" LEG BANDS

These rings are made of spring brass and so bent that the tag acts as a clasp, holding them securely in place. Tags are aluminum. Mention size wanted when ordering.

Price, 12 for 20c; 25 for 35c; 50 for 60c; 100 for \$1.00, postpaid.



"STAY-ON"

#### PIGEON BANDS



Made from aluminum tubing. Are put on safely when birds are young. Are very light.

Price, 12 for 20c; 25 for 40c; 50 for 75c; 100 for \$1.35, postpaid.

#### THE IMPROVED CHAMPION LEG BANDS.

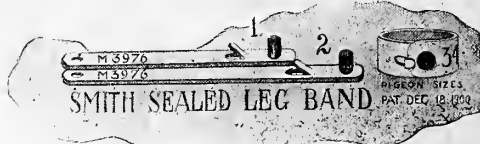


Made of pliable aluminum, which can be adjusted to fit any size leg. Three-inch size for all ordinary breeds; 4-inch size for extra large and turkeys. All neatly numbered.

Price, 12 for 15c; 25 for 25c; 50 for 40c; 100 for 75c, postpaid.



#### SMITH'S SEALED BANDS



By the use of these positive identification of a bird banded by one of these bands is without question. They are made from flat aluminum with edges carefully rounded. Positively no duplicates are manufactured. These bands are affixed with a sealer tool. The use of these bands is the correct way to keep record of prize stock.

Price, 12 for 30c; 25 for 50c; 60 for \$1.00; 100 for \$1.50, postpaid.

Sealers for sealing bands, 50c each.



SMITH'S SEALER



#### DOUBLE CLINCHED PIGEON BANDS

No. 1. Small. 12 for 15c; 25 for 30c; 50 for 50c; 100 for 80c, postpaid.

No. 2. Large. Same price as No. 1.

#### "PERFECTO" CELLULOID SPIRAL LEG BANDS

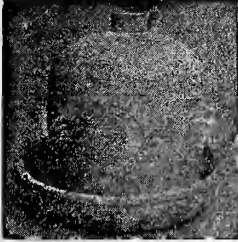
Made in ten colors: Red, green, amber, black, white, pink, yellow, ruby, light blue and dark blue. Six sizes: No. 1, Asiatics; No. 2, American breeds; No. 3, Leghorns; No. 4, Bantams; No. 5, Pigeons; No. 6, Baby Chicks.

Price, 12 for 12c; 25 for 25c; 50 for 40c; 100 for 75c.



## POULTRY DEPARTMENT—Continued

### Drinking Fountains



and inverted into a pan. gal. size, 35c.

#### **BARTELDES' TWO-PIECE EARTHEN DRINKING FOUNTAIN**

These stoneware drinking fountains keep the water cool and clean, and chicks from getting wet or drowned. Made with open bottom for convenience of cleaning. Price, 2-qt. size, 30c;

#### **THE "COLORADO" FOUNTAIN One Piece**

Half-gallon, each 25c; one gallon, each 30c. Special brooder size, holds about 1½ quarts, fits inside brooder, each 20c.



#### **THE "SANITARY" FOUNTAIN**

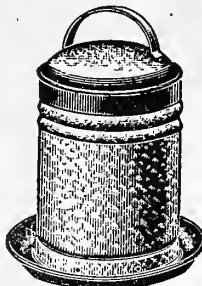
A square, galvanized fountain in two parts. A slight pull on the projecting part of the bottom removes it entirely, and, by using a small whisk broom, both parts are easily and thoroughly cleaned. It is filled instantly. It can be hung up out of the dirt on an ordinary nail or hook.

Price, 1 quart size, 55c; 1 gallon size, 65c; 2 gallon size, 85c.



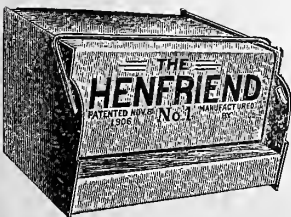
#### **DELPHOS GALVANIZED FOUNTAIN**

To fill this fountain pull top off base and turn can upside down and fill, then push base on and invert. Price, 50c.



#### **HENFRIEND DRINKING FOUNTAIN**

Can be used also as a feed box. Size No. 1, \$1.00; size No. 2, 75c; No. 3, 60c.



#### **N. W. AUTOMATIC FEEDER AND FOUNTAIN**

Will feed water, grit, shell, grain, etc. Any size mason jar fits the pans. Made in 2 sizes. No. 5, each, 10c; No. 6, each, 15c.

### FEED AND WATER JARS

Plain, made of stoneware, holding about 1½ quarts. For either feed or water. Very easy to keep clean. 6x3 inches inside. Price, 15c each; 1 dozen, \$1.00.

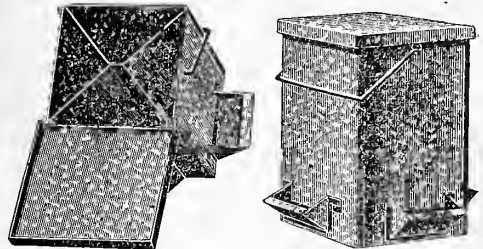
Concave, same size jar with concave bottom. Will not crack from freezing water and is not easily upset. Same price as the plain.



#### **SANITARY SELF-FEEDING BOXES FOR POULTRY**

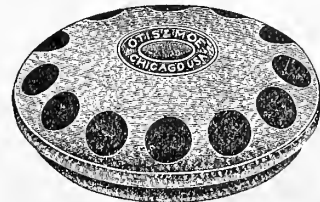
This box is manufactured from the best galvanized iron. It can be hung up against the wall at any height desired. It is a first-class article, is practically indestructible and will last a lifetime. No. 0, 1 pint to a bin, 3 compartments, price, 50c. No. 1, 2 quarts to a bin, 3 compartments, price, 75c. No. 2, 2 large compartments, price, \$1.00.

#### **FOUR IN ONE SANITARY FEEDER**



Made of galvanized iron and collapsible. It has 4 compartments which can be used for 4 kinds of grit or feed. Size 7¼x7¼x11 inches. Being collapsible they are shipped knocked down; are put together in one minute. Each, \$1.25.

#### **MOE'S ROUND BABY CHICK FEEDER**



A great feed and chick saver. Chicks can't get in and contaminate the feed or water, nor get drowned.

6-inch size, 8 holes.....\$0.30 each  
8-inch size, 12 holes......45 each

## POULTRY DEPARTMENT—Continued

### NORWICH AUTOMATIC EXERCISER AND FEEDER



An automatic feeder that feeds just the amount of grain that the fowls eat up clean—no waste, no loss. Has a metal stand that keeps the feed away from the mice, and makes it easy to fill. The poultry feed themselves by pecking at the feed bar, which allows a certain amount of grain to fall. As it falls, the spreader scatters it over the ground, where the birds get the needed amount of exercise scratching for it. Can be raised or lowered to feed baby chicks or grown fowls. The amount of feed can be regulated also. Saves time, grain and labor.

No. 1, Capacity 8 qts. \$3.00.

No. 2, Capacity 14 qts. \$3.90.



### DAVIS FOOD AND WATER FOUNTAIN

One of the most handy fixtures for poultrymen. Can be filled with water or feed. It consists of an iron frame, into which any kind of bottle or mason jar is inverted, and can be hung anywhere. See illustrations. Price, frame only, 25c; brooder size, 20c.

## Shipping and Exhibition Coops

### BARTELDES' EXHIBITION COOPS

The frames and bottom are of good, dry, light lumber with heavy canvas sides, top and back. They are very strong and can be sent long distances with safety to itself and contents. The fronts are made of good white maple rods, protected by a heavy canvas curtain, held in place by a neat strap. Shipped to customers K. D. Can be put together quickly.



- No. 4, for pair, 24x24x30 in., each.....\$2.50
- No. 2, for pen, 24x40x30 in., each..... 3.25
- No. 1, same dimensions as No. 2, but has 2 compartments, each..... 3.50

**Pigeon and Bantam Coop.** 45x15 inches, with two partitions, dividing into three compartments. These partitions are hinged and can be opened back and fastened, thus making one large compartment. Each, \$2.50.

### DRINKING CUPS FOR EXHIBITION COOPS

These cups are made of sheet iron, heavily enameled, and hold half a pint each. They are indispensable for watering and feeding birds cooped in exhibition cages. The back is flat with hooks provided for hanging to slats or wire front of cage. Have large flat bottoms to prevent tipping if set in cage.

Price, each, 20c; by mail, 25c.

### APACO FEEDER

This is the same machine as the Norwich Automatic, except in place of the metal stand, the Apaco is arranged to hang by a chain from the ceiling.

Capacity 12 qts, \$1.65 each.



### RACINE SHIPPING COOP

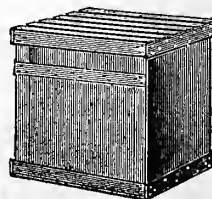
One of the best on the market. A light coop made of light lumber, having a two-inch opening front and back, under a slatted top, so as to give fowls plenty of fresh air when shipping them. Birds shipped in this coop are in no danger of smothering, heat of steam pipes, or drafts on depot platforms, and arrive at their destination without having their plumage harmed. For these reasons this coop is the most desirable for shipping fancy or show birds, and is used exclusively by some of the largest breeders.

Size A, for single bird, 12 in. wide, 21 in. long, 21 in. high; 60c each.

Size B, for pair or trio, 18 in. wide, 21 in. long, 21 in. high; 75c each.

Size C, for pen, 24 in. wide, 21 in. long, 21 in. high, strong, 85c each.

Size D, for pen, 30x21x21, extra strong, \$1.10 each.





## POULTRY DEPARTMENT—Continued

### "ANDREWS EFFICIENCY SHIPPING KOOPS"



The lightest and handiest coop made. It comes K. D. and can be set up in a minute or two without hammer or nails. Simply fasten together with four bolts. The sides are of heavy corrugated jute-board, with solid wood bottom and slatted wood top. To remove bird, simply loosen one bolt and top turns back.

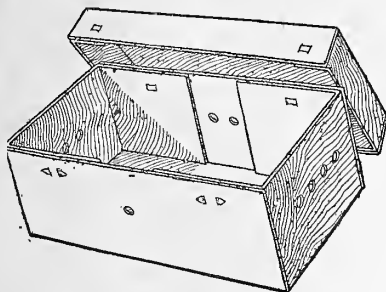
Single—holds 1 to 3 birds, 90c each.

Trio—holds 2 to 4 birds, \$1.10 each.

### EMPIRE EXHIBITION COOPS

The frame-work is manufactured of  $\frac{1}{8}$ -inch hardwood which will not lose its shape. The front, back and top are of No. 12 galvanized wire which will not rust. The perpendicular bars are placed  $1\frac{1}{4}$  inches apart, which will not allow bird to pass its head through. The tie joints of the cross-wires are tight and solid and will not permit the accumulation of filth and vermin. The ends and partitions are made of 3-ply veneered hardwood, clean and durable, with two coats of No. 1 coach varnish. The coops are hinged and can be folded flat for shipping or storage. In the coops of more than one compartment, the partitions can be removed making the coop into one large section or pen.

Each  
Style AA—Single bird, 24x24x27 in. Price.. \$5.00  
Style C—2 compartment, 44x24x27 in. Price. 7.00  
Style H—Pen, 1 compart., 48x30x30 in. Price. 7.00  
Style A—3 compartment, 66x24x27 in. Price. 8.00



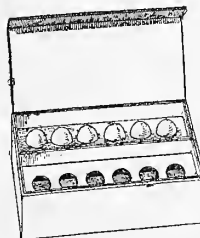
### ANDREWS LIVE CHICK BOXES

Simple but complete—all in one piece—shipped flat, put together in a jiffy with brass pins provided for the purpose. Nothing to glue—no strings to tie. Substantial and dependable—reinforced where the strain comes.

25 Chick size,  $13\frac{1}{4}$ x8x5 $\frac{1}{2}$ , 15c each; \$1.60 dozen.  
50 Chick size,  $14\frac{1}{4}$ x14x5 $\frac{1}{2}$ , 25c each; \$2.30 dozen.  
100 Chick size,  $26\frac{1}{4}$ x15x5 $\frac{1}{2}$ , 35c each; \$3.90 dozen.

### Egg Shipping Boxes

#### ANDREWS NON-BUSTO COMMERCIAL EGG CARRIER



The simplest, safest egg carrier on the market, but costs no more than the common kind. It holds the egg in suspension, with an air cushion all around it, holding it as rigid and safe as in your own hand. No fussy fillers—simply drop the eggs in the holes, insert a piece over them, tie the package and off they go—all done in a minute. Better

than anything you ever tried.

12-Egg, size— $8\frac{1}{4}$ x6 $\frac{1}{2}$ x2 $\frac{1}{2}$ , 10c each; 85c dozen.

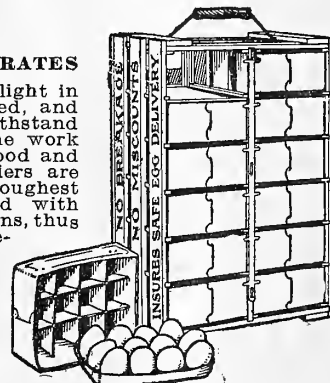
#### ANDREW'S NON-BUSTO HATCHING EGG CARRIER

This is made on same plan as the Commercial carrier, except is in multiples of five instead of six and is made of water-proofed, 100 lbs. to the square inch test jute paper. Will give absolute satisfaction. Sawdust, excelsior or packing of any kind is absolutely unnecessary if you use the Andrew's Non-Busto Hatching Egg Carrier.

15-Egg size—15c each; \$1.50 dozen.  
30-Egg size—25c each; \$2.50 dozen.  
50-Egg size—30c each; \$3.40 dozen.

### MODERN EGG CRATES

These crates are light in weight, well balanced, and strong enough to withstand use. The frame work is of white wood and the individual carriers are made of the toughest jute board with compartment divisions, thus giving perfect safety for eggs.



Size No. 4, holds 4 dozen eggs.....\$1.00  
Size No. 8, holds 8 dozen eggs.....1.30  
Size No. 12, holds 12 dozen eggs.....2.15

### FARMER'S FRIEND EGG CARRIER

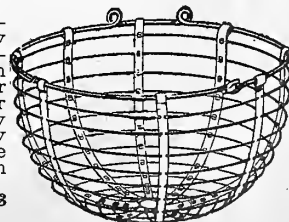


The most complete egg carrier on the market; holds twelve dozen eggs. It is equipped with an adjustable cover and a patent combination lifter and fastener. Just the thing for the farmer and poultryman.

Price, complete, 75c.

### WIRE NESTS

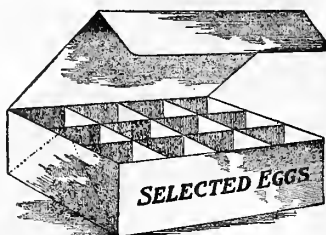
These nests are strongly made from heavy japanned steel wire,  $1\frac{1}{4}$ -inch mesh. Will fasten to wall with screws or hooks. No place for lice or vermin of any kind to lodge; are easy to keep clean and are far superior to wooden boxes.  
Price, each, 20c; 3 for 50c.



## POULTRY DEPARTMENT—Continued

### PAPER EGG BOXES

Just the thing for use in delivering eggs for family egg trade. Saves the lost profits due to breakage. Far more convenient than the old way of handling—saves time, labor and expense. You will get a premium over market price when you deliver good stock in these boxes. Made in two shapes and the following grades. All styles made of extra heavy cardboard and will carry eggs safely.



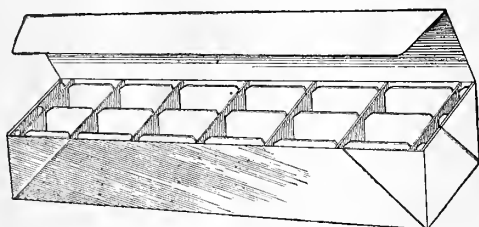
**Eagle**—3x4. Printed like cut. Doz. 15c; 100, \$1.00; 1,000, \$8.00.

**Eagle**—3x4. Plain. Doz. 15c; 100, \$1.00; 1,000, \$8.00.

**Navajo**—3x4. Plain or printed. Doz. 15c; 100, \$1.00; 1,000, \$8.25.

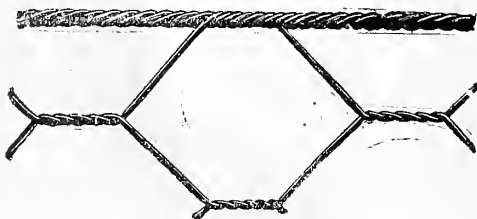
**Seminole**—6x2. Plain or printed like cut. Doz. 20c; 100, \$1.50; 1,000, \$12.50.

**Sewanee**—6x2. Extra heavy paper, printed. Doz. 20c; 100, \$1.50; 1,000, \$13.00.



### GALVANIZED POULTRY NETTING

The best and cheapest fence to put around a chicken yard. Sold in full rolls of 150 lineal feet, any size from 3 to 6 feet high; 2-inch meshes. Price, \$1.00 per 100 square feet. Rabbit wire, 1-inch meshes, from 1 to 3 feet high. Price, \$2.25 per 100 square feet.



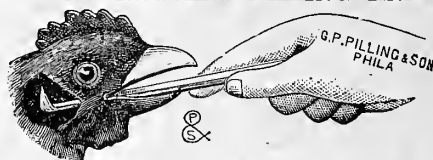
### ELATERITE RE-INFORCED ROOFING

This is made of solid body, tough, pliable and durable, Elaterite Cement, re-inforced with one layer of heavy imported India burlap, backed with highly compressed saturated wool felt. Top surface is mica. It is water, steam, acid and fire-proof. No coal tar is used in its make-up. Put up in rolls 40 feet long and 32 inches wide, complete with nails and cement.

**34X** grade, medium, weighs about 55 lbs., price, \$4.80 per roll. **5X** grade, heavy, weighs about 65 lbs., price, \$5.20 per roll.



### PILLING ANGULAR KILLING KNIFE



By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. 80¢cents, postpaid.

### FRENCH POULTRY KILLING KNIFE



Every poultry raiser should have one Killing Knife. These are made of finely tempered instrument steel, with nicked handle; will last a lifetime. Sent postpaid on receipt of 80c.

### PLAIN BRUSSELS HAIR GAPE WORM EXTRACTOR

10c each, postpaid

### PHILADELPHIA GAPE WORM EXTRACTOR

Price, postpaid, 25c



### PURE SULPHUR FUMIGATING CANDLES



Our Pure Sulphur Fumigating Candles are equal to any Fumigating Candles on the market. They are easy to light, easy to extinguish, safe to use, and produce a deadly vapor to all infectious diseases, disease germs and insect life. Price, each, 20c; per dozen, \$2.25; by mail, each, 5c extra.

### IRON ROOST INSULATORS



Iron Roost Insulator

The use of a pair of these Iron Roost Insulators will prevent fowls from being troubled at night by mites and lice, as they cannot crawl from the walls or supports onto the perch on account of the oil, or liquid lice killer, contained in the cups. They connect the supports and the roosts. Price, pair, 25c.

### WOOD'S REVOLVING EGG CABINETS

Eggs intended for hatching should be turned daily. Wood's Revolving Egg Cabinets are a practical device for doing this work and meet a widespread need among poultrymen who save eggs for hatching.

#### PRICES

150-egg size, weight 30 lbs. .... \$4.25  
288-egg size, weight 55 lbs. .... 7.25



## POULTRY DEPARTMENT—Continued

### OCULUM

A scientific remedy and preventive for cholera, roup and white diarrhoea; also cure for gapes, diarrhoea in sheep, calves, colts and kidney worm in hogs. All of these diseases are caused by germs, and the only way to cure the disease is to kill the germ; the surest and safest remedy on the market is Oculum.

Inoculate your fowls and prevent these diseases. Oculum is very easy to apply. Directions and dropper with each bottle. Prices, 50c and \$1.00.

### AVENARIUS CARBOLINEUM—Liquid

The famous German Wood Preserver and Insecticide. Paint or spray your chicken houses, hog pens, stables, sheds, etc., with Avenarius Carbolineum to permanently destroy all kinds of vermin and preserve your building from rot and decay. Prices, qt. can 70c; gal. \$2.00. For large quantity, ask for prices.

### FLOUR OF SULPHUR

Good to remedy canker mouth, etc. Also to burn as disinfectant. 1 lb. 15c; 5 lbs. 50c; 10 lbs. 75c.

### TOBACCO DUST

Ground very fine. Drives away lice and vermin. 1 lb. 10c; 5 lbs. 40c; 25 lbs. \$1.50; 100 lbs. \$4.80.

### PERSIAN INSECT POWDER

The grade we handle is strictly pure. Don't be deceived by any low-priced, adulterated article. ¼ lb. 50c; ½ lb. 85c; 1 lb. \$1.50.

### CHLOROLEUM—Similar to Creolio—Liquid

Chloroleum disinfects, kills lice and mites, cures and prevents cholera and roup in poultry. Effectual and economical. 8 oz. bottle 25c; pint can 40c; qt. can 60c; ½ gal. 90c; gallon \$1.50.

### LIME AND SULPHUR SOLUTION—Liquid

Extensively used for spraying poultry houses to kill lice and mites. Pint cans 35c; qt. cans 60c; gallon cans \$1.00.

### WHITAKER'S POULTRY DISINFECTANT

Most of the troubles with disease in poultry can be avoided by the regular use of Whitaker's Disinfectant.

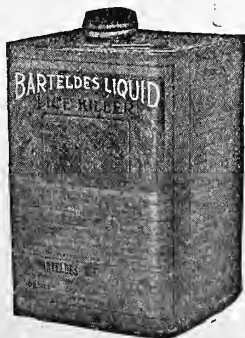
Kills lice and mites and other vermin. Keeps the poultry houses in a sanitary condition, thereby insuring healthy chickens and a larger production of eggs.

Whitaker's Disinfectant dilutes with water and can be used at a cost of 3 cents or less per gallon.

Prices: Pints, 50c; quarts, 75c; ½ gallon, \$1.00; 1 gallon, \$1.75; 5-gallon can, \$6.00. Prices in larger quantities on application.

### BARTELDES' LIQUID LICE KILLER

A wholesale lice and vermin destroyer. Saves expenses and labor. No dipping, no dusting, no greasing, easily applied. Does not injure or mar the plumage. One-quart can, 35c; ½ gallon can, 60c; 1 gallon can, \$1.00.



## Egg and Meat Preservers

Why not save some eggs when they are plentiful and cheap and have them for use when eggs are scarce and high in price? It is easily done with the following

### Egg Preservers

#### WATER GLASS EGG PRESERVER

It is a simple matter to preserve eggs with Water Glass Egg Preserver. The pure heavy Water Glass is simply diluted one part to ten of boiled water, the eggs placed in an earthen jar or barrel and covered with the solution. If you are preserving your eggs as fast as they are laid, make a solution first and put the eggs in it as they are gathered.

When strictly fresh eggs have been put into Water Glass Egg Preserver they have invariably, at the end of six months, come out in better shape than the average market eggs supposed to be fresh.

One gallon of Water Glass Egg Preserver will preserve nearly 100 dozen eggs. Price, gallon, \$1.00; ½ gallon, 60c; quart, 40c; pint, 30c. Cannot be mailed.

#### FLEMING EGG PRESERVER

Endorsed by Experimental Stations and Agricultural Experts. Protected by U. S. Patent.



By simply anointing the eggs when fresh, placing them in common egg cases in a cool dry place, they are guaranteed to keep for nine months as fresh as the day they were laid.

After preserving with Fleming Egg Preserver, they can be poached, boiled or whipped, if directions are followed. This is the most simple and effective preserver on the market. A \$1.00 jar will preserve 100 dozen eggs. A trial order will convince you. This preserver can be mailed.

Prices: 65c and \$1.25.

#### SMOKE FLAVOR

This is a liquified hickory smoke and is used for smoking hams and bacon. It is applied with a brush, and gives exactly the same results as if deposited on the meat by the old method of smoking. Try a bottle of it on some of your hams or bacon, and you will never go back to the old method of smoking.

Price, small bottle, 25c; large bottle, 60c. Cannot be mailed.



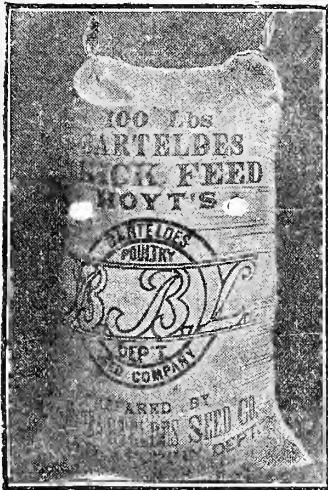
Fifteen inches long and holds about 1 pint of Liquid Lice Killer. Just the thing for spraying around the roosts and nests. We also carry two sizes. See page 108.

## POULTRY DEPARTMENT—Continued

# VARIOUS POULTRY FOODS

Prices Subject to change

Ask for Latest Price List—Sent Free



### BARTELDES' CHICK FEED (HOYT'S)

#### The Best Balanced Dry Foods for Chicks

This is our own formula; beware of imitations. In Barteldes' Chick Feed we know we have a food far superior to any other chick feed on the market. It is made from the best of seed grain. It is a perfect chick food. It contains all the necessary ingredients that a chick needs. It will prevent bowel trouble and all other chick complaints. It is used by most every poultry raiser in Colorado. We have never had a single complaint against it; everyone pronounces it a wonderful food. Put up in our own printed sacks.

Price: 6-lb. pkg. 45c; 14-lb. sack 80c; 30-lb. sack \$1.50; 50-lb. sack \$2.40; 100-lb. sack \$4.70.

### BARTELDES' DEVELOPING FOOD

Has no equal for growing chicks. A mixture of small grains, beef scraps, charcoal and other ingredients for the quick growth of poultry. Should be given as soon as chicks get too large to be fed Barteldes' Chick Feed. Price: 3 lbs. for 25c; 8 lbs. 50c; 50 lbs. \$2.30; 100 lbs. \$4.55.

### BARTELDES' FATTENING FOOD

A fowl to be worthy of the highest market price must be "finished," that is, it must have a liberal quantity of fat and meat on its frame, and that is easily obtained by using Barteldes' Fattening Food. Price: 50-lb. sack \$1.30; 100-lb. sack \$2.50.

### DENVER LAYING FOOD

#### A Carefully Balanced Mash Food for Eggs and Feather Making

We feel that we are familiar with the needs and requirements of our Western poultry breeders, and in offering this Mash, we know we are offering a high grade article that gives favorable results. A trial will convince the most skeptical that this food is an egg producer.

Price, 50 lbs. \$1.30; 100 lbs. \$2.50.

### BARTELDES' MIXED HEN FEED



This is a balanced food of mixed grains for laying hens. It contains grit, shell, bone, dried meat, sunflower and mixed grains of different kinds in suitable proportions, to promote egg yield. The variety of grains, shell, grit, dried meat, etc., being of different size induces fowls to scratch more, and as exercise is necessary to promote digestion, they will be kept strong and vigorous.

Price fluctuates. Present price, 50 lbs. \$1.90; 100 lbs. \$3.75. Ask for quotations on large quantities.

### BARTELDES' MIXED PIGEON FEED

Specially prepared for pigeons and squabs, contains red wheat, Kaffir corn, cracked corn, buckwheat, many other suitable grains and shell. Price, 6 lbs. 50c; 50 lbs. \$2.65; 100 lbs. \$5.25.

### BARTELDES' MASH FOOD

For moulting fowls. Brings them quickly through the moulting period and back to laying.

Price, 5 lbs. 20c; 10 lbs. 30c; 25 lbs. 60c; 50 lbs. \$1.10; 100 lbs. \$2.00.

### CRUSHED OYSTER SHELL

This is the most important article, for the poultry yard, and should be supplied to the fowls liberally.

Our shell is of superior quality, as all parts of the egg shell are contained in them; whereas a good portion of the shell offered is nothing more than the refuse of the fertilizer works and not fit to offer a decent hen.

|                     |        |
|---------------------|--------|
| 5-lb. package.....  | \$0.15 |
| 12-lb. package..... | .25    |
| 35-lb. sack.....    | .50    |
| 50-lb. sack.....    | .70    |
| 100-lb. sack.....   | 1.25   |

Ask for price on large quantities.

Kaffir Corn, Wheat, Corn, whole and cracked, Barley, whole and ground, small White Peas, at market prices. Remember, when you buy these Grain Foods from us you get full weight.

### ALFALFA CLOVER MEAL

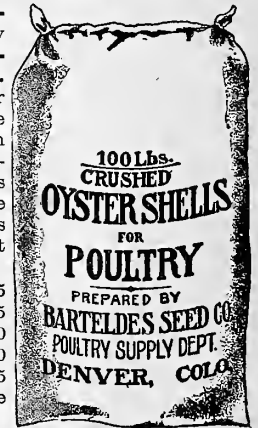
This is alfalfa hay reduced to a meal containing the entire product—stalks, leaves and blossoms. It is a grand green food for winter. It furnishes protein, lime and other mineral salts. Fowls relish it immensely. Feeding clover insures an increase of fertile eggs. It likewise add lustre to the plumage. In original sacks of 100 lbs. at \$2.10 per 100 lbs. Less sack lots at 3c per lb.

### CHARCOAL

Pure charcoal is an excellent aid in arresting bowel complaints, and is both simple and harmless. A corrector of bowel troubles where the hens have not had a variety.

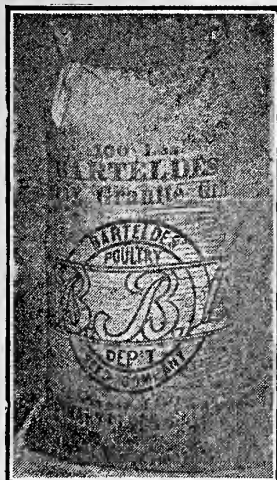
**Granulated.** Suitable size for grown fowls; can be kept in open dish ready to be eaten as wanted. 2-lb. carton with directions, 20c; 10 lbs. 50c; 25 lbs. \$1.10; 100 lbs. \$4.00.

**Powdered.** Suitable for chicks' feed in soft food. Price same as above.





## POULTRY DEPARTMENT—Continued



### GRAY GRANITE GRIT

It is made from crushed rocks found in the Rocky Mountains and of such composition that the expansion and contraction of the gizzard breaks it into small pieces, which keeps continually sharp until the last and smallest. 5 lbs. 15c; 12 lbs. 25c; 30 lbs. 40c; 50 lbs. 60c; 100-lb. sack, \$1.00.

### MEAT AND BONE MEAL

Is a well balanced mixture of fine ground bone and meat meal. Admirably adapted for building up and fattening broilers. Prices: 10 lbs. 60c; 25-lb. sack, \$1.15; 50-lb. sack, \$2.15; 100 lbs. \$4.15.

### DRIED MEAT, BONE AND BLOOD

Similar to above, with addition of blood. Prices: 10 lbs. 60c; 25 lbs. \$1.15; 50 lbs. \$2.15; 100-lb. sack, \$4.15.

### MEAT MEAL

Meat Meal is a concentrated food, containing 60 to 65 per cent protein. In the meat meal we sell there is absolutely no adulteration, and the analysis will be found uniform throughout. A great flesh producer. Price: 10 lbs. 60c; 25 lbs. \$1.15; 50 lbs. \$2.15; 100-lb. sack, \$4.15.

### GREEN CUT BONE—Granulated

Made from soluble bones, dried but not cooked, retaining all the marrow and oil in the bones. Price: 5 lbs. 25c; 11 lbs. 50c; 25 lbs. 95c; 50 lbs. \$1.80; 100 lbs. \$3.45.

### GRANULATED BONE No. 1—Coarse, Strictly Pure

Consists of ground beef bone, thoroughly dried and free from grease. Rich in phosphate of lime, which is so necessary for making good egg shells and for building up the frame of the chicken. Should be placed in liberal quantities in a clean, dry place, accessible to the chickens at all times.

Price: 6 lbs. 50c; 25-lb. sack, \$1.35; 50-lb. sack, \$2.55; 100-lb. sack, \$4.95.

### GRANULATED BONE No. 2—Second Grade

Made from good bones, though not selected. Price: 11 lbs. 50c; 25-lb. sack 95c; 50-lb. sack \$1.80; 100-lb. sack, \$3.45.

### POULTRY MUSTARD

Needed in the winter mashes to keep up the egg production. Price: 1 lb. 40c; 2 lbs. 75c; 5 lbs. \$1.75; 25 lbs. \$7.75.

### ARMOUR'S BLOOD MEAL—Deodorized

Conceded to be one of the greatest egg producers on earth. It is a great chick grower. If you want winter eggs, blood meal will bring them. One of the cheapest foods there is: One lb. is equal to 16 lbs. of fresh meat. As to the advantage gained by feeding blood meal to young chicks, ducks and turkeys, we can say there is positively nothing better for them. One heaping teaspoonful a day in a mash for a dozen hens will make an increase of eggs that will be surprising. Price: 3 lbs. 25c; 10-lb. bag 70c; 15 lbs. \$2.00; 50-lb. keg, \$3.10; 100-lb. keg, \$5.75.

### GREEN CUT MEAT AND BONE—Dried

This is a Western product and a most excellent food, having all the elements necessary to make healthful growth. The meat is sufficiently evaporated to prevent becoming rancid. Keeps well. Should be placed in liberal quantities in a clean, dry place, easily accessible to the chickens at all times. Price: 5 lbs. 25c; 11 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$1.90; 100-lb. sack, \$3.70.

### RED PEPPER COMPOUND FOR POULTRY

This can be mixed with soft food and fed to advantage. Price, per lb. 35c; 5 lbs. for \$1.50; 25 lbs. for \$6.25.

### COLORADO HIGH PROTEIN BEEF SCRAPS

Practically the same as Swift's, but manufactured in Denver. 3 lbs. 25c; 7 lbs. 50c; 25 lbs. \$1.30; 50 lbs. \$2.50; 100 lbs. \$4.80.

### BONE MEAL No. 1—Fine, Strictly Pure

Is the same as the coarse, but ground finer for the smaller chicks, and is a great frame builder. It can be mixed with the mash in limited quantities. Price: 6 lbs. 50c; 25-lb. sack, \$1.35; 50-lb. sack, \$2.55; 100-lb. sack, \$4.95.

### SWIFT'S HIGH PROTEIN BEEF SCRAPS

A very superior grade of meat scraps prepared in a meal suitable for feeding in mash or with other soft foods. Contains fully 50 per cent protein and 8 per cent fat. Every pound contains as much feeding material as 10 lbs. of fresh meat. Is bound to give good results.

Price: 3 lbs. for 25c; 25 lbs. for \$1.35; 50 lbs. \$2.55; 100 lbs. \$5.00.

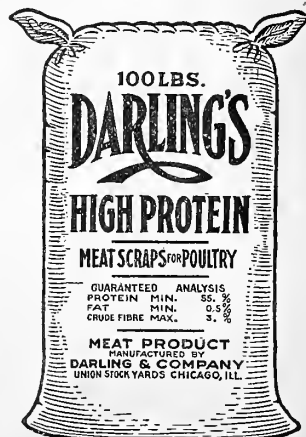
### BLOOD MEAL, COLORADO MADE

Manufactured by our own Denver Packing Company, practically the same as Armour's, but not fully deodorized. Price: 2 lbs. 25c; 4 lbs. 50c; 25 lbs. \$1.60; 50 lbs. \$3.05; 100 lbs. \$6.00.

### DARLING'S MEAT CRISPS

Made from selected, fresh meat trimmings, carefully cooked, pressed and dried; clean and sanitary.

Promote rapid growth and makes early laying pullets. Ground in three sizes for any stage of development. Guaranteed analysis: Protein, 55 per cent; fat, 1/2 of 1 per cent; fiber, not over 3 per cent. Thus 3 lbs. of these Crisps equal 5 lbs. of ordinary meat scraps. Price, pkgs. 25c and 50c.



**pratts**

# ANIMAL AND POULTRY REGULATORS AND REMEDIES

## BABY CHICK FOOD

**SATISFACTION GUARANTEED OR MONEY BACK**



Healthy birds and lots of eggs, the two big things in poultry raising, are made certain by giving

### PRATTS POULTRY REGULATOR

100-lb. bags \$9.00; 25-lb. pail \$2.50; 12-lb. pail \$1.25; packages 50c, 25c.

It builds up vitality, insures sound digestion, sharpens appetite and prevents disease, thus putting

birds in condition for heavy egg-laying or winning blue ribbons.

Pratts is the original Poultry Regulator of America, and is in use by the most successful poultry raisers everywhere.

When regularly used, hens lay throughout the year.

It will prevent chicken cholera, gapes, rheumatism, expel worms, prevent leg weakness and egg-eating. It will greatly improve turkeys, geese, ducks, pigeons and guineas—insuring quick growth, and keep them free from disease.



To protect your chicks from white diarrhoea, the most destructive of all chick diseases, it is only necessary to give

### PRATTS WHITE DIARRHOEA REMEDY

25c. and 50c.

in the drinking water from the first drink. This remedy has saved many dollars worth of chicks for poultry raisers. You can depend on it.



Gapes is so serious a poultry disease that the remedy used should act quickly and cause the worms to be expelled.

### PRATTS GAPE REMEDY

will effect a positive cure in chicks already attacked by gapes. If used in the drinking water from the very first drink it will protect the birds. This remedy has our unqualified money-back guaranty. Prices, 25c. and 50c.

Roup is too dangerous, spreads too fast to take chances experimenting. Stop the disease and save your poultry by giving

### PRATTS ROUP REMEDY

Tablets or Powder 25c, 50c and \$1.00.

Gives almost instant relief. Reduces fever, allays inflammation. Purifies the blood and rids the system of the germs of roup, colds, canker, diphtheria and similar diseases.

Pratts Roup Remedy is put up both in tablets and as a powder, but the great convenience of the tablets for individual treatment so often necessary in this class of cases, has made them generally preferred.



Get rid of lice on your poultry, in nests, dustbaths, incubators and elsewhere in a day's time by using

### PRATTS POWDERED LICE KILLER

25c. and 50c.

Effective, non-poisonous, non-irritating. It quickly and thoroughly kills all lice on little chicks, big chicks, setting hens and incubator chicks. It rids horses, cattle, hogs, dogs and cats of lice, and destroys ticks on sheep. It destroys insects and bugs on vines, plants and flowers. Drives out moths from closets, furniture, carpets and clothing.



If poultry keepers would regularly spray the chicken houses, roosts, dropping boards and utensils with

### PRATTS POULTRY DISINFECTANT

most all their troubles would vanish.

Three times as powerful as crude carbolic acid. A sure deodorizer, germicide and liquid lice killer. Use it for roup, colds and other contagious diseases. Quart 50c, half-gallon 90c, gallon \$1.50.



**THE LINES OF SUCCESS WITH POULTRY ALL LEAD  
DIRECT TO PRATTS.**



**Pratt's**

# ANIMAL AND POULTRY REGULATORS AND REMEDIES BABY CHICK FOOD SATISFACTION GUARANTEED OR MONEY BACK



Using Pratt's Baby Chick Food means Life Insurance for the baby chicks for the critical first three weeks period, at a very small outlay and guaranteed to give the little fellows a splendid start which will prove the foundation for a healthy career.

When baby chicks come, keep them healthy and growing and bring even the weak ones along by feeding.

## PRATTS BABY CHICK FOOD

Packages 30c and 60c. 14 lbs. for \$1.20. 100-lb. Sacks \$7.00.

A largely predigested baby food for baby chicks. Guaranteed to raise every livable chick. Prevents leg weakness, "white diarrhoea," "pasting up" and other chick diseases.



From gratifying experience poultrymen have learned that the disgusting disease known as Sore-Head or Chicken-Pox can be successfully treated with

## PRATTS SORE-HEAD AND CHICKEN-POX REMEDY

25c. and 50c.

It acts quickly, checking the spread of the contagion and curing the sores.

We guarantee a sure, rapid cure if Pratt's Sore-Head (Chicken-Pox) Remedy is used.

An unfailing remedy for cholera and a "guaranteed or money back" article is

## PRATTS CHOLERA REMEDY

25c and 50c.

It is administered in the drinking water and will be found of great value, not only for treating cholera but also in cases of indigestion, sour crop, dysentery, diarrhoea and bowel trouble.



More work out of your horses, more milk from your cows, fatter hogs—these are a few of the benefits which come from using

## PRATTS ANIMAL REGULATOR

This is the original and pioneer stock regulator of America. Tested thoroughly for nearly half a century, its worth is known and recognized by stock owners the world over. Always sold on a guarantee that it will satisfy you for your money back.



25-lb. pails, \$3.00, are popular with our customers.

Packages 25c., 50c. and \$1.00.

Get prices on 50-lb. and 100-lb. sacks.

|                           |                     |
|---------------------------|---------------------|
| Pratts Condition Tablets  | 25c., 50c.          |
| Pratts Bronchitis Remedy  | 25c., 50c.          |
| Pratts Worm Powder        | 50c., \$1.00.       |
| Pratts Colic Remedy       | 60c., \$1.25.       |
| Pratts Liniment           | 25c., 50c., \$1.00. |
| Pratts Head Lice Ointment | 25c.                |
| Pratts Scaly Leg Remedy   | 25c., 50c.          |



# BLATCHFORD'S CALF MEAL

## The Complete Milk-Equal



"Good to the last drop"

Sold in 100-, 50- and 25-pound bags.

Write for prices.

Just the thing to raise or veal your calves right from birth.

Then sell your milk and get the benefit of the high creamery prices.

No more scouring calves.

It is absolutely the only milk substitute that contains all the elements necessary for rapid and healthy growth, and the only calf meal that is thoroughly cooked and prepared for digestion. Will push calves forward better and quicker than any other food.

*100 pounds make 100 gallons of Complete Milk Substitute.*

### From Sow to Pasture

Wean your little pigs easily, safely and cheaply on



Sold in 100-, 50- and 25-lb. bags. Write for prices.

### Blatchford's Pig Meal

From Pig-hood to Pork-age it gives big bone and solid flesh. Prevents loss of growth and vitality during the critical weaning period, and always *makes the runts catch up.*

### Blatchford's Lamb Meal

for baby lambs; it is a complete equal for the ewe's milk—a steam cooked milk substitute. Because of their tender digestive organs, baby lambs always require a careful weaning. Blatchford's Lamb Meal matures them quickly and prevents scours and setbacks.

Sold in 100-lb. bags



### Blatchford's "Fill-the-Basket" Egg Mash

Fed dry, just as it comes from the bag, it is the *best* food for all kinds of poultry. Contains a perfectly balanced combination of *milk, meat and grains*, ground to the correct degree of coarseness for easy digestion.



Sold in 100-lb. bags

# BLATCHFORD'S MILK MASH

## Will Save Your Baby Chicks

No more bowel trouble, leg weakness or white diarrhea. It is a complete milk substitute, and will usually raise a hundred per cent hatch. It is steam cooked. For fattening broilers and roasters, mix half cornmeal with it, and get thirty to thirty-five per cent increased weight in twelve days' feed, of the highest quality meat for your table or the market.

Try a bag of this complete milk-equal for *all kinds* of young poultry.



24 lbs. in 2 weeks!

Sold in 100- and 25-lb. bags; also 4-lb. trial cartons.



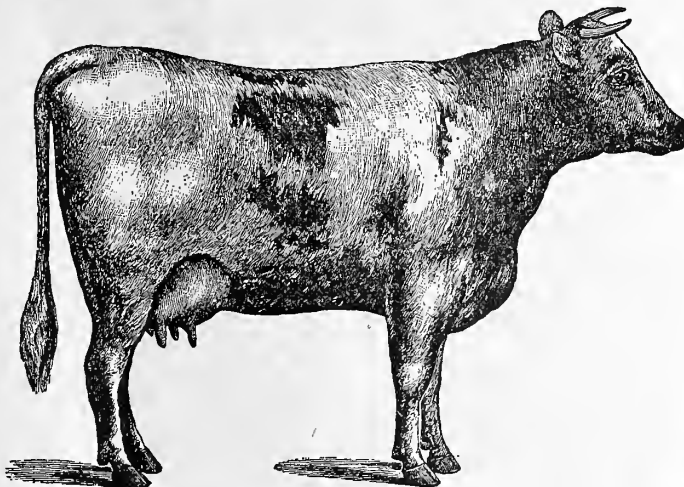
NOTE: Larger and quicker profits to the farmers, stock raisers and poultrymen, are the real reasons for the success of the Blatchford Milk Substitutes. Satisfied customers have been the cause for the steady annual increase in the Blatchford business for over thirty-five years in the United States.

We sell and recommend all of the Blatchford products. Write us for prices or further particulars on any of them.



## CONCENTRATED STOCK FOODS

**100 lbs.**  
**Ground**  
**Oil**  
**Cake**  
**Contains**  
**27 lbs. of**  
**Digestible**  
**Protein**



**100 lbs.**  
**Corn**  
**Oats or**  
**Barley**  
**Contains**  
**9 lbs. of**  
**Digestible**  
**Protein**

### Oil Cake Meal

Oil Cake Meal is the most valuable and useful by-products of the farm. It is not only very rich in protein but is a safe and palatable food. When fed judiciously there is no class of animals kept on the farm to which it may not be fed with profit for a shorter or longer period. It is much relished by all classes of domestic animals, and is, to some extent, an appetizer as well as a food. Being mildly laxative it exercises a salutary influence on the digestive organs. There is no kind of concentrated foods or grain with which it cannot be combined. To all kinds of growing animals it may be fed with much benefit in the winter, along with grain and other meal. It may form as much as 10 per cent of the concentrated feed. It is also very helpful for cattle that are finished on pasture.

As a food for milch cows Oil Cake Meal, to a certain limit, is most satisfactory; though it should not exceed 3 to 3½ pounds daily. It not only increases the quantity of milk; but will also increase the amount of butter fat. The amount of digestive protein in oil cake meal compared with other grain foods is from 2½ to 3 times larger.

**OIL CAKE MEAL or GROUND OIL CAKE**, as it is very often called, is the by-product of flax seed after the oil has been extracted. It contains 27.3 protein and 48.5 carbohydrate per 100 pounds. The nutritive ratio is 1:1.7.

In fattening all kinds of animals for the market a certain amount of Oil Cake Meal or Flax Seed Meal should be fed the last 3 or 4 weeks of the fattening period, as their use will not only add weight, but improve greatly the general appearance.

To poultrymen it is likewise of value in keeping fowls in good health. Price fluctuates. Present price: 7 lbs. for 50c; 25 lbs. for \$1.05; 50 lbs. for \$2.00; 100 lbs. for \$3.85.

### Flax Seed Meal

Flax Seed Meal is made from whole flax seed, ground fine, and contains per 100 pounds 8.1 water; 4.7 ash; 21.6 protein; 7.3 crude fibre; 27.9 nitrogen extract, and 30.4 ether extract. Being richer than Oil Cake Meal it requires less to mix with other foods to obtain equal results.

A little fed occasionally to poultry is very beneficial. One tablespoonful in a mash to each dozen fowls, daily, is a great help during the moulting season. Present price: 1 lb. 15c; 2 lbs. 25c; 9 lbs. \$1.00; 25 lbs. \$2.50; 50 lbs. \$4.75; 100 lbs. \$9.25.

### Cotton Seed Meal

This is the residue of the cotton seed kernel after the hull has been removed and the oil extracted. The resulting cake is then ground up, making the Cotton Seed Meal. This meal is in general use as it is easier to mix in the feeds. An analysis of the meal shows approximately per 100 lbs.: Water 7.66; ash 6.22; crude protein 41.38; crude fibre 11.69; nitrogen extract 22.76; ether extract 6.33. Price: 5 lbs. 25c; 25 lbs. 90c; 50 lbs. \$1.65; 100 lbs. \$3.15.

## CONKEY'S REMEDIES

**Conkey's Roup Cure**, 25c, 50c and \$1.00 packages.  
**Conkey's Bronchitis Cure**, 50c package.  
**Conkey's Cholera Cure**, 25c and 50c packages.  
**Conkey's Gape Cure**, 50c package.  
**Conkey's Chicken Pox Cure**, 50c package.  
**Conkey's Limberneck Cure**, 50c package.  
**Conkey's Scaly Leg Cure**, 25c and 50c packages.  
**Conkey's Rheumatic Cure**, 50c package.  
**Conkey's Poultry Worm Cure**, 25c package.  
**Conkey's Poultry Tonic**, 25c package.  
**Conkey's Lice Powder**, 10c, 25c and 50c packages.  
**Conkey's White Diarrhoea Cure**, 25c and 50c packages.  
**Conkey's Lice Killer**, 35c, 60c and \$1.00 cans.  
**Conkey's Laying Tonic**, 25c, 50c and \$1.00 packages.

**Conkey's Healing Powder**, 25c and 50c packages.  
**Conkey's Healing Salve**, 25c package.  
**Conkey's Colic Remedy**, 50c and \$1.00 packages.  
**Conkey's Hoof Remedy**, 50c, 75c, \$1.25 and \$2.00 packages.  
**Conkey's Bag Ointment**, 25c and 50c packages.  
**Conkey's Stock Tonic**, 25c, 50c and \$1.00 packages.  
**Conkey's Gall Salve**, 50c size.  
**Conkey's Canker Special**, 50c size.  
**Conkey's Absorbent**, \$1.00 size.  
**Conkey's Distemper Remedy**, 50c size.  
**Conkey's Worm Drops for Dogs**, 50c size.  
**Conkey's Warming Liniment**, 50c size.  
**Conkey's Mange Remedy**, 50c bottles.  
**Conkey's Mange Remedy**, 50c cans.  
**Conkey's Head Lice Remedy**, 10c and 25c sizes.

## PET STOCK, DOG AND BIRD FOODS AND REMEDIES



**Spratt's Dog Cakes.** Dog cakes and bread should be fed dry; the dog having to gnaw them as they would a bone. When fed to puppies, dip in hot water or soup before giving.

14-oz. cartons 15c; 2½-lb. cartons 35c; 5¼-lb. cartons 70c; 25-lb. case \$3.00; 50-lb. case \$5.50, 100 lb. case \$10.50.

**Spratt's Puppy Cakes.** 11-oz. cartons 15c; 2½-lb. cartons 35c; 4¼-lb. cartons 70c; 25-lb. box, \$3.00; 50-lb. box \$5.75; 100-lb. box \$10.75.

**Spratt's Terrier Cakes.** About 2½-lb. cartons 35c.

**Spratt's Midget Biscuits.** These are small in size and contain less meat than the other cakes. 15c and 35c cartons.

**Spratt's Anti-Vomit Remedy.** Bottle 50c.

**Spratt's Antiseptic Dog Soap.** Cake 50c.

**Spratt's White Dog Soap.** Cake 50c.

**Spratt's Constipation Tablets.** Pkg. 50c.

**Spratt's Diarrhoea Tablets.** Pkg. 50c.

**Spratt's Distemper Tablets.** Pkg. 75c.

**Spratt's Hair Stimulant.** Bottle 50c.

**Spratt's Liniment.** Bottle 0c.

|   |        |
|---|--------|
| Spratt's Worm Capsules, for dogs.....         | \$0.50 |
| Spratt's Vermifuge Capsules, for puppies..... | .50    |
| Spratt's Worm Capsules, for puppies.....      | .50    |
| Spratt's Cat Food, small.....                 | .15    |
| Spratt's Cat Food, medium.....                | .35    |
| Spratt's Malted Kitten Food.....              | .30    |
| Spratt's Distemper Tablets, for cats.....     | .75    |
| Spratt's Vermifuge Capsules, for cats.....    | .50    |
| Spratt's Bird Lice Destroyer (Hennings).....  | .30    |
| Spratt's Pollerackers.....                    | .15    |
| Spratt's Rabbit and Cavy Food.....            | .30    |
| Spratt's Bird Tonle (Hennings).....           | .15    |
| Spratt's Song Restorer.....                   | .20    |

**"Maltoid Milk—Bone."** The bone-shaped dog and puppy biscuits. Do not sour on the dog's stomach. This complete food digests easily, is very nourishing, and regulates the bowels if not overfed. Made in two convenient sizes, for dogs and puppies. Cartons 10c and 25c; 10-lb. box \$1.10; 25-lb. box \$2.50.

**Catnip.** Nature's remedy and conditioner for cats. It will prevent many diseases and keep them in condition. Pkg. 5c.

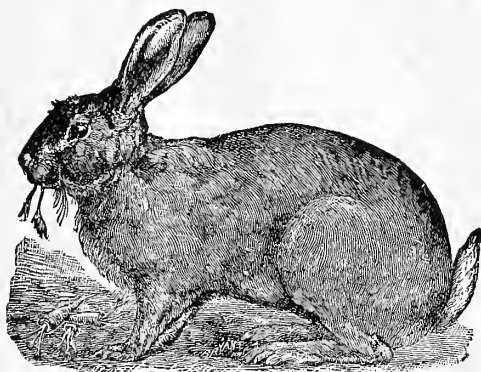
**Catnip Balls.** A ball filled with catnip; makes an excellent exerciser. One ball in pkg. of catnip 10c.

**Barteldes' Fish Food.** Per package 10c.

**Bitter Lick Bricks.** A new way to give conditioner to horses and cattle. Put up in bricks shaped so cattle can lick easily. One brick, about 2¼ lbs. 25c; dozen \$2.50.

**Holder for same, 20c each.**

## BELGIAN HARES



The raising of Belgian Hares is again on the increase. No other business has known such sudden popularity as the Belgian Hare industry. At one time Belgian Hares, or "Rabbits" were merely raised for pets, the children keeping a few in a pen, disposing of the young by giving them to the neighbors. But now their value from a financial standpoint is being recognized; some say they are as profitable to raise as poultry. Not only are they raised for show purposes, but also for their meat and pelts, the meat being quite a delicacy.

The Belgian Hare is easy to raise, and cheap to feed. The two most prevalent and dangerous diseases among Belgian Hares, are **Snuffles** and **Slobbers**. Snuffles are the result of dirty hutches,

overfeeding or draughts. The symptoms are: sneezing, and a white mucous discharge from the mouth. The animal will refuse food and the coat will become rough. The disease is contagious, so isolate the hare, placing in clean comfortable quarters. Give some Bovier's Specific in the feed. Slobbers attacks young stock and seems to be from a lack of sufficient nourishment from the mother doe. Symptoms are: A constant flow of saliva, wetting the fur around the mouth and on the chest and forelegs. It soon results fatally if not checked at once. Give a dose or two of Bovier's Specific and remove all food for twelve hours.

We can now supply fancy stocks of either Belgian Hares or Flemish Giants at prices ranging from \$3.00 to \$5.00 each. Let us ship you some of the good stock grown around Denver. If you are in the market for any other breeds, write us, as we can usually supply good stock of any of the recognized breeds.

### Bovier's Specific for Snuffles and Slobbers

This is the best remedy for preventing or curing Snuffles or Slobbers. It is a powder to use in the feed, which acts on the stomach, kidneys and blood, making an excellent tonic. If used every few days, Hares will keep in better condition than ever. Hares eat it readily. Prices: 7-oz. can 30c; 16-oz. can 60c.



# BIRD SEED

**Mixed Bird Seed.** One lb. 15c; 2 lbs. for 25c.  
**Canary, re-cleaned.** One lb. for 15c.  
**Hemp, Russian, choice.** One lb. for 15c; 2 lbs. for 25c.  
**Rape, choice.** One lb. for 15c; 2 lbs. for 25c.  
Larger lots at market prices.  
**Bird Sand.** Pure and sifted. 2¼-lb. package 10c.  
**Cuttle Bone.** A piece should be in every cage. Two ounces 15c; one lb. 75c.

**Barteldes' Columbine Grade Parrot Food.** Per pkg. 15c.  
**Bitter Iron Tonic and Song Restorer.** Liquid. Creates appetite and restores lost song. Two-ounce bottle 25c each.  
**McAllister's Mocking Bird Food.** Strictly pure and high-grade. Per bottle 50c.  
**Bird Food Manna.** Song restorer and prevents disease. Each caged bird needs it. In round balls ready to fasten to wire of cage. 15c each, prepaid.  
**Salt Cat** aids digestion, invigorates and promotes good health. Brick 15c.

# RAFFIA AND REEDS

## INDIAN BASKETS

How to make these baskets is now taught in nearly all schools and kindergartens, and is also practiced in many homes as a pastime or as a source of revenue. These baskets are made of **Raffia** in both natural and dyed colors. We are headquarters for this and can furnish it in any quantity and in many different colors.

When Raffia is wanted by mail, add postage.

We will be pleased to send free our set of samples, showing all our colors on a card. Large lots to teachers and professional weavers at special prices.

Prices subject to change.

## RAFFIA

**COLORED.** When ordering mention number. Per small bunch 10c; 2 ozs. 20c; per ¼ lb. of one color 35c; per ½ lb. of one color 65c; per lb. of one color \$1.25.

No. 1, Dark Red. No. 8, Jet Black.  
No. 2, Dark Green. No. 9, Old Gold.  
No. 3, Olive Green. No. 10, Yellow.  
No. 4, Pink. No. 11, Indian Red.  
No. 5, Navy Blue. No. 12, Purple.  
No. 6, Seal Brown. No. 13, Canary Yellow.  
No. 7, Orange. No. 14, Burnt Orange.

**NATURAL—1st Grade.** Per 3-oz. bunch 20c; per ½ lb. 45c; per 1 lb. 70c. In original skeins of 1½ to 3 lbs., each at 68c per lb. 5-lb. lots or more at 65c a lb.

## BOOKS ON RAFFIA WORK (Postpaid)

**Basket Making—How to Do It.**..... Each \$0.25  
**Designs for Bead Work,** price..... .25

## RATTAN REEDS

These are the Imported Reeds—nothing better. Their usefulness in the work with Raffia is very prominent. We now carry a stock in sizes from No. 00, the smallest, to No. 6. No. 00, oz. 20c; ¼ lb. 65c; lb. \$2.15. No. 1, oz. 15c; ¼ lb. 55c; lb. \$1.55. No. 2, oz. 15c; ¼ lb. 50c; lb. \$1.45. No. 3, oz. 15c; ¼ lb. 45c; lb. \$1.40. No. 4, oz. 15c; ¼ lb. 45c; lb. \$1.35. No. 5, oz. 15c; ¼ lb. 45c; lb. \$1.30. No. 6, oz. 15c; ¼ lb. 40c; lb. \$1.25. If by mail add postage.

## NEEDLES

No. 21, 1¼-inch long; No. 18, 1½-inch long; No. 17, 2 inches long. Six needles for 10c. A package of 10 one size for 15c. We can furnish needles blunt or sharp point.

We can supply all sizes of tray bottoms, punched complete for making raffia trays. Prices vary. Ask for price on size you want. Also can supply stands for raffia lamps.

# Chili Con Carne and Hot Tamale Ingredients

Dealers and others using quantity will do well to ask us for prices for large lots.

|                             | Per lb. | Per 10 lb. lots |                   | Per lb. | Per 10 lb. lots |                    | Per lb. | Per 10 lb. lots |
|-----------------------------|---------|-----------------|-------------------|---------|-----------------|--------------------|---------|-----------------|
| Chili Pepper Pods, dry..... | 35c     | \$3.30          | True Petines..... | \$1.00  | \$9.50          | Garlic.....        | 20c     | \$1.50          |
| Japanese Chili Pods.....    | 75c     | 7.00            | Comino Seed.....  | .40     | 3.80            | Mexican Beans..... | 15c     | 1.00            |
|                             |         |                 | Oregano.....      | .40     | 3.50            | Corn Husks.....    | 30c     | 2.25            |

# Flavoring Seeds

We carry a full line of seeds expressly for use in flavoring pickles, soups; also baking, etc.

|                               | Per ¼ lb. | Per lb. |   | Per ¼ lb. | Per lb. |                            | Per ¼ lb.    | Per lb. |
|-------------------------------|-----------|---------|---|-----------|---------|----------------------------|--------------|---------|
| Anise, Italian.....           | 20c       | \$0.50  | Pumpkin Seed, for medicinal use.....    | 10c       | \$0.25  | Mustard, Yellow.....       | 15c          | 40c     |
| Dill.....                     | 15c       | .35     | Watermelon Seed, for medicinal use..... | 10c       | .25     | Mustard, Black.....        | 10c          | 25c     |
| Caraway, clean and fresh..... | 40c       | 1.25    | Poppy, Blue.....                        | 40c       | 1.30    | Fennel.....                | 15c          | 40c     |
| Coriander, bleached.....      | 15c       | .35     |   |           |         | Cardamon Seed, select..... | oz. 20c; 65c | \$2.50  |
| Celery.....                   | 15c       | .50     |   |           |         |                            |              |         |

If tamale ingredients and flavoring seeds are wanted by mail, add postage.

# Good Books for Poultry and Pet Stock Fanciers

|  | Price  |   | Price  |
|--|--------|---|--------|
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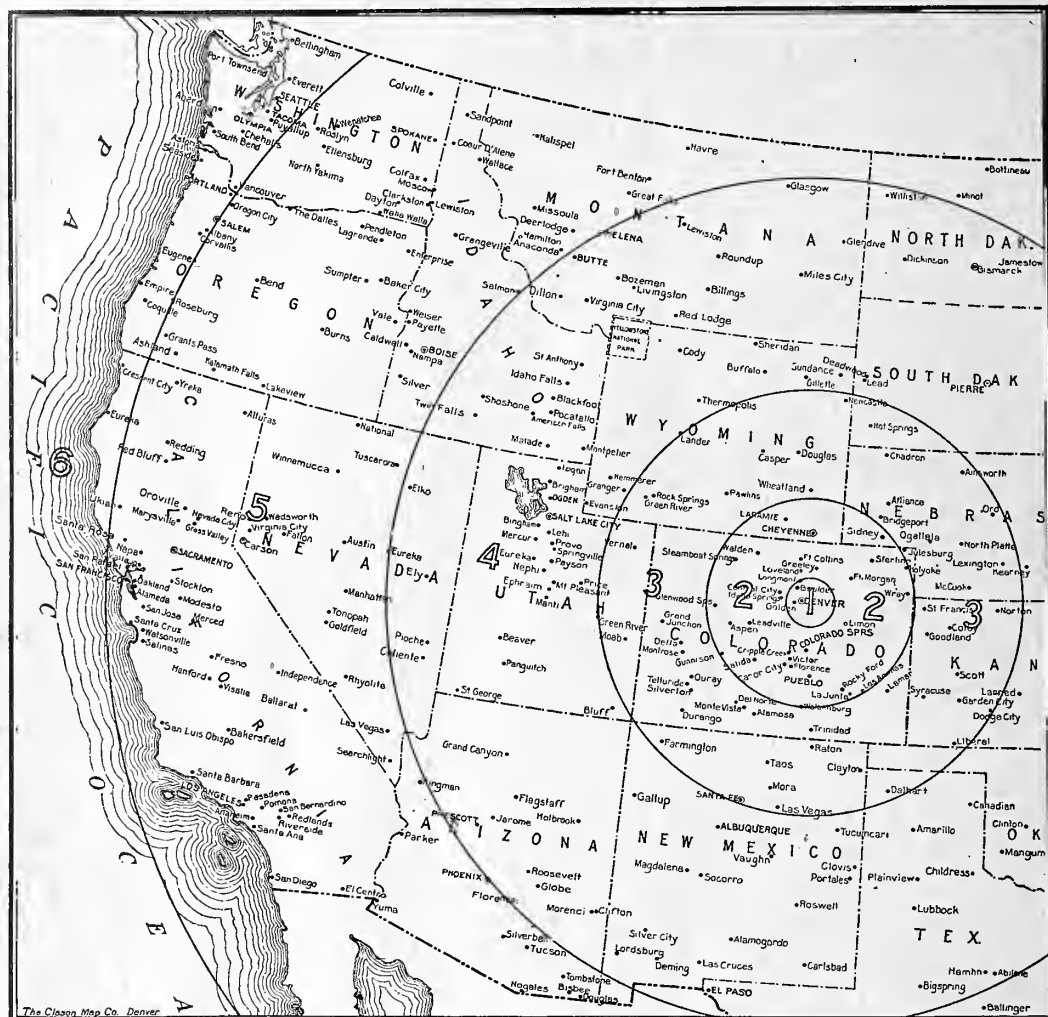


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# PARCEL POST REGULATIONS.

When goods are wanted by parcel post, postage must be added, as we do not mail goods free except Flower and Vegetable Seeds in packets, ounces, quarter of pound and 1 pound. Beans, Corn and Peas also are not mailed free and postage must be added.



| Weight<br>in<br>Pounds | ZONES  |        |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|--------|
|                        | Local  | First  | Second | Third  | Fourth | Fifth  | Sixth  |
| 1                      | \$0.05 | \$0.05 | \$0.05 | \$0.06 | \$0.07 | \$0.08 | \$0.09 |
| 2                      | .06    | .06    | .06    | .08    | .11    | .14    | .17    |
| 3                      | .06    | .07    | .07    | .10    | .15    | .20    | .25    |
| 4                      | .07    | .08    | .08    | .12    | .19    | .26    | .33    |
| 5                      | .07    | .09    | .09    | .14    | .23    | .32    | .41    |
| 6                      | .08    | .10    | .10    | .16    | .27    | .38    | .49    |
| 7                      | .08    | .11    | .11    | .18    | .31    | .44    | .57    |
| 8                      | .09    | .12    | .12    | .20    | .35    | .50    | .65    |
| 9                      | .09    | .13    | .13    | .22    | .39    | .56    | .73    |
| 10                     | .10    | .14    | .14    | .24    | .43    | .62    | .81    |
| 11                     | .10    | .15    | .15    | .26    | .47    | .68    | .89    |
| 12                     | .11    | .16    | .16    | .28    | .51    | .74    | .97    |
| 13                     | .11    | .17    | .17    | .30    | .55    | .80    | 1.05   |
| 14                     | .12    | .18    | .18    | .32    | .59    | .86    | 1.13   |
| 15                     | .12    | .19    | .19    | .34    | .63    | .92    | 1.21   |
| 16                     | .13    | .20    | .20    | .36    | .67    | .98    | 1.29   |
| 17                     | .13    | .21    | .21    | .38    | .71    | 1.04   | 1.37   |
| 18                     | .14    | .22    | .22    | .40    | .75    | 1.10   | 1.45   |
| 19                     | .14    | .23    | .23    | .42    | .79    | 1.16   | 1.53   |
| 20                     | .15    | .24    | .24    | .44    | .83    | 1.22   | 1.61   |
| 21                     | .15    | .25    | .25    |        |        |        |        |
| 22                     | .16    | .26    | .26    |        |        |        |        |
| 23                     | .16    | .27    | .27    |        |        |        |        |
| 24                     | .17    | .28    | .28    |        |        |        |        |
| 25                     | .17    | .29    | .29    |        |        |        |        |
| 26                     | .18    | .30    | .30    |        |        |        |        |
| 27                     | .18    | .31    | .31    |        |        |        |        |
| 28                     | .19    | .32    | .32    |        |        |        |        |
| 29                     | .19    | .33    | .33    |        |        |        |        |
| 30                     | .20    | .34    | .34    |        |        |        |        |

Add one cent for every two additional pounds, up to 50 pounds, for Local, and one cent for every additional pound for First and Second Zones.

Parcels weighing 4 ounces or less, except books, seeds and plants, require 1 cent for each ounce or fraction thereof, any distance. Parcels containing seeds, plants or books weighing 8 ounces or less require 1 cent for each two ounces or fraction thereof, any distance. All parcels weighing more than the above require postage according to distance at the pound rate shown in the following table, a fraction of a pound being considered a full pound.

Local, First and Second Zones will carry 50 lb. packages; all other zones 20 lbs. is the limit.



# HONEY DEW MELON

*A new melon having a distinct, delicious flavor*



**W**E know of no other melon, fruit, or vegetable that has ever come into popular favor so rapidly as has the Honey Dew Melon.

This melon, unknown a few years ago, is now offered on the menus of all Dining Cars, Hotels and Restaurants throughout the country.

The flavor of the Honey Dew is so delicious and so entirely distinct that it has at once put this melon in a class by itself.

The melon was produced by crossing the well-known Rocky Ford with an African melon. The result of this cross was then crossed with the Improved Hybrid Cassaba and this produced a melon which retained the sweetness of the Rocky Ford, the delicious flavor of the African melon and the smooth hard shell of the Cassaba.

The average size of the melon is six inches in diameter and seven to eight inches in length, weighs five to six pounds. The skin is smooth with an occasional net, and is a creamy yellow when ripe. The flesh is emerald green, very thick, melting, fine-grained, and can be eaten clear to the rind. The rind being hard, impervious to water and not easily bruised makes the Honey Dew an excellent shipper.

The qualities mentioned above would alone make this a fine melon but the flavor of the Honey Dew puts it in a class by itself. The Honey Dew is as sweet as honey and has a delicious flavor all its own. This flavor seems to be a combination of many, among which are pineapple, banana and vanilla.

The Honey Dew melons will be in big demand next season and will command the very highest prices.

Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00



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